AMERICAN RAILROAD JOURNAL,

AND GENERAL ADVERTISER

FOR RAILROADS, CANALS, STEAMBOATS, MACHINERY,

AND MINES.



he

ith

FH.

0of

vil-

nce

of-

all ammi. ing lent

r.

16-

At-

eet.

dis-

ibi-

anv

CO. Erie in-

on 1 20

the

y. 4t36

ESTABLISHED 1831.



PUBLISHED WEEKLY, AT No. 23 CHAMBERS STREET, NEW YORK, AT FIVE DOLLARS PER ANNUM.

SECOND QUARTO SERIES, VOL. II., No. 40.]

SATURDAY, OCTOBER 3, 1846.

[WHOLE No. 537. VOL. XIX.

BOSTON AND PROVIDENCE RAIL- DOSTON AND MAINE RAILROAD.

Passenger Notice. Summer Arrange- Dupper Route, Boston to Portland via, Reading,

ment. On and after Monday, April 6, 1846, the Pas-

senger Trains will run as follows:
For New York—Night Line, via Stonington.

For New York—Night Line, via Stonington. Leaves Boston every day, but Sunday, at 5 p.m. Accommodation Trains, leave Boston at 7½ a.m. and 4 p.m., and Providence at 8 a.m. and 4½ p.m. Dedham trains, leave Boston at 8 a.m. 12½ m., 3½ p.m., and 6½ p.m. Leave Dedham at 7 a.m. and 9½ a.m. and 2½ and 5½ p.m. Stoughton trains, leave Boston at 11½ a.m. and 5½ p.m. Leave Stoughton at 7.20 a.m. and 3½ p.m. All baggage at the risk of the owners thereof. 31 1y W. RAYMOND LEE, Sup't.

All baggage at the risk of the owners thereof.

Ity W. RAYMOND LEE, Sup't.

BRANCH RAILROAD and STAGES CONneting with the Boston and Providence Railroad.
Stages connect with the Accommodation trains at the Foxboro' Station, to and from Woonsocket. At the Sharon Station, to and from Lonsdale, R. I. via Pawtucket. At the Sharon Station, to and from Medford, via Medway, Mass. At Providence, to and from Medford, via Warren, R. I.—The Depot in Boston is on Haymarket Square.

Walpole, Mass. And at Dedham Village Station, to and from Medford, via Warren, R. I.—The Depot in Boston is on Haymarket Square.

Passengers are not allowed to carry Baggage, to and from Bristol, via Warren, R. I.—The Depot in Boston is on Haymarket Square.

Passengers are not allowed to carry Baggage, unless notice is given, and an extra amount paid, at the rate of the price of a Ticket for every \$500 additional value.

"Middletown at 12 M.

The names of the consignee and of the station where to be left, must be distinctly marked upon each article shipped. Freight not received after 5 p. M. in New York.

Apply to J. F. Clarkson, agent, at office corner of Duane and West sts. H. C. SEYMOUR, Sup't.

The Depot in Boston is on Haymarket Square.

Passengers are not allowed to carry Baggage, unless notice is given, and an extra amount paid, at the rate of the price of a Ticket for every \$500 additional value. connection with the accommodation trains.

Norwich and Worcester RAIL-Road. Summer Arrangement, commencing

Monday, April 6, 1846. Accommodation Trains, daily, except Sunday. Leave Norwich, at 6 a.m., and 41 p.m. Leave Worcester, at 10 a.m., and 41 p.m.

The morning Accommodation Trains from rianna, at 7, 8, 9, 10 and 11 a. m., and at 1, 2, 3 30, Norwich, and from Worcester, connect with the 4 30, 5, 6, and 6 30 p. m. trains of the Boston, and Worcester and Western Leave City Hall for Fordham and Williams' railroads each way.

The Evening Accommodation Train from Wor-ester connects with the 11 p.m. train from Boston. New York Train via Long Island Railroad: kahoe, Ha

ly, except Sunday.

leave Worcester for New York, about 10 a.m., stopping at Webster, Danielsonville, and Norwich.

New York Train via Steamboat—Leave Norwich for Boston, every morning, except Monday, on the arrival of the stamboat from New York, stopping at Norwich and Danielsonville.

Leave Worcester for New York, upon the arrival of the train from Boston, at about 4‡ p.m., daily, except Sunday, stopping at Webster, Danielsonville

Leave White Plains, at 7 and 10 a.m., and at 2 and 5 p. m.

The freight train will leave the City Hall at 1 o'clock p. m., and leave White Plains at 1 o'clock p. m.,

Freight Trains daily each way, except Sunday.— Special contracts will be made for cargoes, or large quanties of freight, on application to the superinten-

Fares are Less when paid for Tickets than when paid in the Cars. In W. STOWELL, Sup't.

Andover, Haverhill, Exeter, Dover, Great Falls, South & North

Berwick, Wells, Kennebunk and Saco. Summer Arrangement, 1846.

On and after April 13, 1846, Passenger Trains will leave daily, (Sundays excepted,) as follows:
Boston for Portland at 7½ a.m. and 2½ p.m.
Boston for Great Falls at 7½ a.m., 2½ and 4½ p.m.

Boston for Haverhill at 71 and 111 a.m., 21, 41 and

p.m. Boston for Reading at 71, 9, and 111 a.m., 21, 41,

6 and 8 p.m.
Portland for Boston at 7½ a.m., and 3 p.m.
Great Falls for Boston at 6¼ and 9¼ a.m., and 4¼

additional value.

CHAS. MINOT, Super't.

NEW YORK & HARLEM RAILROAD CO.—Summer Arrangement.

On and after Friday, May 1st, 1846, the cars will run as follows: the cars will run as follows:

Leave City Hall for Yorkville, Harlem and Mor-

Leave City Hall for Fordham and Williams' Bridge, at 7, 10 and 11 a. m., and at 2, 3 30, 5, and

ster connects with the 11 p.m. train from Boston.

New York Train via Long Island Railroad:
Leave City Hall for Hunt's Bridge, Bronx, Tuc
kahoe, Hart's Corners and White Plains, at 7 and
Leave Allyn's Point for Boston, about 1 p.m., dai10 a. m., and at 2 and 5 p. m.

Leave Harlem and Yorkville, at 7 10, 8 10, 9, 10, 11 10 a.m., and at 12 40, 2, 3 10, 5 10, 5 30, 6 10,

in the morning. On Sundays, the White Plains train will leave the City Hall at 7 a. m. and 5 30 p. m.; will leave White Plains at 7 a. m. and 6 p. m.

On Sundays, the Harlem and Williams Bridge trains will be regulated according to he state of the weather.

AND MAINE RAILROAD.

Oute, Boston to Portland via, Reading, dover, Haverhill, Exeter, Dogreat Falls, South & North of Great Falls, South & North old between the city of New York and Middletown, Goshen, and intermediate places, as follows:

FOR PASSENGERS—

Leave New York at 7 A. M. and 4 P. M.

"Middletown at 6½ A. M. and 5½ P. M.

FARE REDUCED to \$1 25 to Middletown—way in proportion. Breakfast, supper and berths can be had

on the steamboat. FOR PREIGHT—
Leave New York at 5 P. M.

Middletown at 12 M.

BOSTON AND ALBANY.—WES
RAILROAD.—Fare Reduced.
1846. Spring Arrangement. 1846
Commencing April 1st. -WESTERN

Commencing April 1st.

Passenger trains leave daily, Sundays excepted—
Boston 7½ p. m. and 4 p. m. for Albany.
Albany 6½ " and 2½ " for Boston.
Springfield 7 " and 1 " for Boston.
Springfield 7 " and 1½ " for Boston.
Boston, Albany and T

Boston, Albany and Troy:
Leave Boston at 7½ a. m., arrive at Springfield at 12 m., dine, leave at 1 p. m., and reach Albany at

12 m., dine, leave at 1 p. m., and reach ribary at 6½ p. m.
Leave Boston at 4 p. m., arrive at Springfield at 8 p. m., lodge, leave next morning at 7, and arrive at Albany at 12½ m.
Leave Albany at 6½ a. m., arrive at Springfield at ½ m., dine, leave at 1½ p. m., and arrive at Boston

6 p. m.

64 p. m.
Leave Albany at 2; p. m., arrive at Springfield at
84 p. m., lodge, leave next morning at 7, and arrive at
Boston at 12 m.
The trains of the Troy and Greenbush railroad
connect with all the above trains at Greenbush.
Fare from Boston to Albany, \$5; fare from Springfield to Boston or Albany, \$2.75.
Merchandize trains run daily (Sundays excepted)
between Boston, Albany, Troy, Hudson, Northamptron Hartford, etc.

between Boston, Alexander ton, Hartford, etc.
For further information apply to C. A. Read, agent, 27 State street, Boston, or to S. Witt, agent, JAMES BARNES, JAMES BARNES, And Engineer. Superintent and Engineer.

Western Railroad Office, Springfield, April 1, 1846.

TROY RAILROADS. -IMPORTANT NOtice.-Troy and Greenbush Railroad, forming a continuous track from Boston

to Buffalo and Saratoga Springs. This road is new, and laid with the heaviest fron H rail. Trains will always be run on this road connecting at Greenbush each way with the trains to and from Boston and intermediate places, leaving Greenbush daily at 14 p.m. and 6 p.m., or on arrival of the trains from Boston; leave Troy at 74 a, m. and 44 p.m., or to connect with trains to Boston Trains also run hourly on this road between Troy and Albany. Running time between Greenbush and Troy 15 minutes.

and Albany. Running and Troy, 15 minutes.

TROY AND SCHENECTADY RAILROAD This road is laid its entire length with the heaviest H rail-which is not the fact with the road from Albany. Trains will always be run on this road connecting each way, to and from Buffalo and intermediate places. Leave Troy for Buffalo at 7½ a.m. and ½ p.m. and 6½ p.m., or to connect with the trains for the west; leave Schenectady at 2½ a.m., 8½ a.m., 1 p.m. and 3½ p.m., or on arrival of the trains from Buffalo and intermediate places.

TROY AND SARATOGA RAILROAD. THE ONLY DIRECT ROUTE.

No change of passenger, baggage or other cars on this route. Cars leave Troy for Ballston, Saratoga, Springs, Lake George and White Hall at 71 a.m., (arriving one hour in advance of the train from (arriving one hour in advance of the train from Albany,) and at 3½ p.m. Returning, leave Saratoga at 9 a.m. and 3½ p.m., (reaching Troy in time for the evening boats to New York.) Cars also leave Troy for the Burrough at 3½ p.m. and 7 p.m., connecting with packet boats for the north. This takes passengers from New York and Boston to Montreal in 44 hours.

N.B. Travellers will find the routes through Troy
most convenient and economical, and as expeditious as any other. The steamboats to and from New York land within a few steps of the railroad office, and passengers are taken up and landed by the different railroad lines at the doors of principal hotels, thus saving all necessity for, and annoyance from, hack drivers, cabmen, runners, etc.

Aug. 3, 1846.

THE BEST RAILROAD ROUTE TO THE Lake and Buffalo, from Cincinnati Take Cars to Xenia, 65

Take Cars to Mans-

Fare by this route, although the cheapest across the state, will be reduced in a short time, railroad lengthened, and speed increased.

Leave Cincinnati in the morning, arrive at Co-

lumbus at night.

Leave Columbus in the morning, arrive at San-

dusky same day.

Leave Sandusky, by Boat, in the morning, arrive at Buffalo next morning in time for the Cars north and east for Niagara Falls, Canada, Saratoga Springs, Troy, Albany, Boston, New York, Wash-

Passengers should not omit to pay their fare through from Cincinnati to Sandusky, or from Columbus to Sandusky via Mansfield; as this route is the only one that secures 56 miles [this road is run over in 2h. 50m.,] most railroad which is new, and is the shortest, cheapest and most expeditious across the state.

Fares on the New York railroads are about to be B. HIGGINS, Sup't, etc. M. & S. C. R. R. Co.

Saudusky, Ohio.

RAILROAD IRON.—THE "MONTOUR Iron Company," Danville, Pa., is prepared to execute orders for the heavy Rail Bars of any pattern now in use, in this country or in Europe, and equal in every respect in point of quality. Apply to MURDOCK, LEAVITT & CO., Agents.

Corner of Cedar and Greenwich Sts.

NEW RAILROAD ROUTE FROM BUF-

Passengers destined for Columbus and Cincinnati, O., Louisville, Ky., St. Louis, Mo., Memphis, Tenn., Vicksburg, Natches, New Orleans, and all intermediate ports, will find a new, and the most expeditious and comfortable Route, by taking Steamboats at Buffalo, landing at Sandusky City, Ohio, dispace. From thence by Cars, over the Mansfield Railroad which is new and just opened 230 miles [laid with heavy Iron,] to Mansfield, 56 distance.....

Thence by Stage via Columbus to Xenia over gravel and Macadamized Road, (the best in the state,) in new coaches, from Xenia to Cincinnati, distance 65

TIME. From Buffalo to Sandusky 24 hours From Bunaio to Sandusky 5 a.m. o Columbus ... 14 "
From Columbus to Cincinnati ... 15 "
Or say 30 hours from Sandusky to Cincinnati

over this route, including delays.

FARE. From Buffalo to Sandusky, Cabin\$6 00 Steerage 3 00

Passengers should not omit to pay their fare through from Sandusky City to Cincinnati and take receipts availing themselves of the benefit of a contract existing between the said Railroad and Stage Co's, securing 121 miles travel by good Railroad and 88 miles by Stage, in crossing from Lake Erie to the Ohio ri-ver, in the space of 30 hours.

Passengers destined for St. Louis, or any point ma. 9. from Frankfort, other hours as above, below on the Mississippi, will save by taking this route, from 4 to 6 days time and travel, and nearly half the expense, over the Chicago and Peoria route to the above places.

Fare by this route, although the cheapest, will in a short time be reduced, Railroad lengthened, and

B. HIGGINS, Sup't, etc. M. & S. C. R. R. Co.

Sandusky City, Ohio.

MAIN STEM. The Train carrying the Great Western Mail leaves Bal-

and with the lines of Post Coaches between Cumberland and Wheeling and the fine Steamboats on the Monongahela Slack Water between Browns-ville and Pittsburgh. Time of arrival at both Cum-berland and Baltimore 51 P. M. Fare between those points \$7, and 4 cents per mile for less distan-ces. Fare through to Wheeling \$11 and time about On brls. wet (except molasses 36 hours, to Pittsburgh \$10, and time about 32 hours. Through tickets from Philadelphia to Wheeling \$13, to Pittsburgh \$12. Extra train daily except Sundays from Baltimore to Frederick at 4 P. M., and from Frederick to Baltimore at 8 A. M.

WASHINGTON BRANCH.
Daily trains at 9 A. M. and 5 P. M. and 12 at night from Baltimore and at 6 A. M. and 5 P. M. from Washington, connecting daily with the lines North, South and West, at Baltimore, Washington and the Relay house. Fare \$1 60 through between Particles and Washington in pitch disastic particles. ght from Baltimore and at 6 A. M. and 94 common Washington, connecting daily with the lines orth, South and West, at Baltimore, Washington of the Relay house. Fare \$1 60 through between altimore and Washington, in either direction, 4 common per mile for intermediate distances.

S13yl

THE SUBSCRIBER IS PREPARED TO execute at the Trenton Iron Works, orders for JOHN A. ROEBLING, Civil Engineer, Pittsburgh, Pa. and the Relay house. Fare \$1 60 through between Baltimore and Washington, in either direction, 4 cents per mile for intermediate distances. \$13y1

execute at the Trenton Iron Works, orders for Railroad Iron of any required pattern, and warranted equal in every respect in point of quality to the best American or imported Rails. Also on hand and made to order, Bar Iron, Braziers' and Wire Rods, etc., etc.
PETER COOPER, 17 Burling Slip.
New York.

BALTIMORE AND SUSQUEHANNA Railroad.—Reduction of Fare. Morning and Afternoon Trains between Balti-

FARE. Columbia..... 2 124

Way points in proportion.

PITTSBURG, GETTYSBURG AND

HARRISBURG.

Through tickets to Pittsburg via stage to Har-

EXINGTON AND OHIO RAILROAD.

Trains leave Lexington for Frankfort daily,

Trains leave Exhibition for Frankfort daily, at 5 o'clock a.m., and 2 p.m.

Trains leave Frankfort for Lexington daily, at 8 o'clock a.m. and 2 p.m. Distance, 28 miles. Fare \$1.25.

On Sunday but one train, 5 o'clock a.m. from

Pl

Sa

un

wa

uni

at !
at !
Cir

ing

bey tur the had of the had line of the had lin

Fa

Lexington, and 2 o'clock p.m. from Frankfort. The winter arrangement (after 15th September to 15th March) is 6 o'clock a.m. from Lexington, and

OUTH CAROLINA RAILROAD.---A
Passenger Train runs daily from Charlesion

on the arrival of the boats from Wilmington, N.C., in connection with trains on the Georgia, and Western and Atlan tic Railroads—and by stage lines and steamers connects with the Montgomery and West Point, and the Tuscumbia Railroad in N. Alabama.

Fare through from Charleston to Montgomery

ceive merchandize consigned to their order, and to the different stations on the Georgia and Wester and Atlantic railroad; and to Montgomery, Ala, by the West Point and Montgomery Railroad.

1925

JOHN KING, Jr, Agent.

YENTRAL RAILROAD-FROM SAVANnah to Macon. Distance 190 miles.

This Road is open for the trans-

Freight. Rates of Passengers and Freight. Rates of Passenger, \$800. Freight On weight goods generally ... 50 cts. per hundred

80 cts. per barrel.

40 cts. per hundred machinery

On hhds. and pipes of liquor,
not over 120 gallons ... \$500 per hhd.
On molasses and oil ... \$600 per hhd.
Goods addressed to F. Winter, Agent, forwarded
free of commission. THOMAS PURSE,

These Ropes are in successful operation on the planes of the Portage Railroad in Pennsylvania, on the Public Slips, on Ferries and in Mines. The first rope put upon Plane No. 3, Portage Railroid, has now run 4 seasons, and is still in good condition.

p.m. p.m.

p.m.

. \$9 . 10

wing's p.m.

a.m. h st. DAD.

ber to n, and

leston,

rs con-

nt, and

\$26 50 22 00 e to reand to andto Testern Ala., by

VAN-

indred.

bic ft.

arrel.

undred

warded

WIRE

Stand-etc., by cer, , Pa. on the

nia, on ailrord, 2v1915

and Oothealoga, at the following
On Weight Goods—Sugar, Coffee, Liquor, Bagging, Rope,
Butter, Cheese, Tobacco,
Leather, Hides, Cotton
Yarns, Copper, Tin, Bar &
Sheet Iron, Hollow Ware &
Castings To Ootnealoga, \$0 75 Stones 0 50 On Measurement Goods—Box-0 62

under 12 years of age, half price, Savannah to Macon, \$7.

ITTLE MIAMI RAILROAD.—10

Summer Arrangement.

Two passenger trains daily.

On and after Tuesday, May 5th, until further notice, two passenger trains will be run—leaving Cincinnati daily (Sundays excepted) at 9 a. m. and 1½ p. m. Returning, will leave Xenia at 5 o'clock 50 min. a. m., and 2 o'clock 40 min. p.m. On Sundays, but one train will be run—leaving Cincinnati at 9, and Xenia at 5 50 min., a. m.

Both trains connect with Neil, Moore & Co.'s faily line of stages to Columbus, Zanesville, Wheeling, Cleveland, Sandusky City and Springfield.

Tickets may be procured at the depot on East Front street.

The company will not be responsible for baggage in value, unless the same is real facility of the same days, the stages leave Oothcaloga for Chattanooga, Jasper, Murfreesborough, Knox-ville and Nashville, Tennessee.

This is the most expeditious route from the east to any of these places.

CHAS. F. M. GARNETT, Chief Engineer.

beyond fifty dollars in value, unless the same is its
turned to the conductor or agent, and freight paid at
the rate of a passage for every \$500 in value above
that amount.

W. H. CLEMENT,
Superintendent.

We have the conductor or agent, and freight paid at
any of these places.

CHAS. F. M. GARNETT,

Chief Engineer
Atlanta, Georgia, April 16th, 1846.

| | RA | TES OF FREIGHT. | Between | Augusta and Oothealeg | Between | Charleston and Oothcalor |
|---|------------|--|---------|-----------------------------|---------|--------------------------------|
| | | | 250 | miles. | 386 | miles |
| | 1st class. | Boxes of Hats, Bonnets, and Furnature, per cu- bic foot. | | 16 | \$0 | 05 |
| | 2d class. | Boxes and Bales of Dry Goods, Sadlery, Glass, Paints, Drugs and Con- | | 10 | 90 | 20 |
| 1 | 3d class. | fectionary, per 100 lbs. Sugar, Coffee, Liquor, | 0 | 90 | 1 | 40 |
| | | Bagging, Rope, Cotton Yarns, Tobacco, Lea- ther, Hides, Copper, Tin, Bar and Sheet Iron, Hollow Ware. Castings, Crockery, etc Flour, Rice, Bacon, Pork Beef, Fish, Lard, Tal- low, Beeswax, Fea- | 0 | 55 | 0 | 80 |
| | | thers, Ginseng, Mill Gearing, Pig Iron, and Grindstones, etc Cotton, per 100 lbs Molasses, per hogshead. | 0082 | 37½ 45 50 00 | | 62 <u>1</u> 65 |
| , | | Salt per bushel Ploughs, Corn Shellers Cultivators, Straw Cut- ters, Wheelbarrows | | 75 | | |

Goods consigned to the subscriber will be forwarded free of Commissions.

Freight may be paid at Savannah, Atlanta or Oothcaloga.

F. WINTER, Forwarding Agent, C. R. R.
Savannah, Aug. 15th, 1846.

Test, Wheelbarrows... 0 75

German or other emigrants, in lots of 20 or more, will be carried over the above roads at 2 cents per mile.

Goods consigned to S. C. Railroad Co. will be forwarded free of commissions. Freight may be paid at Augusta. Atlanta, or Oothcaloga. per mile.

Goods consigned to S. C. Railroad Co. will be forwarded tree of commissions. Freight may be paid at Augusta, Atlanta, or Oothcaloga.

J. EDGAR THOMSON,

Ch. Eng. and Gen. Agent.

20th 1845

*44 1y

REAT SOUTHERN MAIL LINE! VIA

Washington city, Richmond, Petersburg, Weldon and Charleston, S. C., direct to New Orleans.
The only Line which carries the Great Southern Mail, and Twenty-four Hours in advance of Bay Line, leaving Baltimore same day.

Passengers leaving New York at 4½ P.M., Philadelphia at 10 P.M., and Baltimore at 6½ A.M., proceed without delay at any point, by this line, reaching Richmond in eleven, Petersburg in thirteen and in cultivation.

The Mail hours, and Charleston, S. C., in two days from Baltimore.

Fare from Baltimore to Charleston.

\$21 00

" " Richmond ... \$21 00

" " Richmond ... \$6 60

For Tickets, or further information, apply at the Smithern Ticket Office, adjoining the Washington Railroad Office, Pratt street, Baltimore, to Smithern Ticket Office, adjoining the Washington Railroad Office, Pratt street, Baltimore, to Smithern Ticket Office, adjoining the Washington Railroad Office, Pratt street, Baltimore, to Swithern Ticket Office, adjoining the Washington Railroad Office, Pratt street, Baltimore, to Swithern Ticket Office, Rolling Blooms and Anchonies;

STOCTON & FALLS, Agents.

CENTRAL AND MACON AND WESTOF TRAIL OND MACON AND MACON AND WESTOF TRAIL OND MACON AND AND AND ALLANTA—171 MILES.

All within 300 Yards of the head of the spring.
There are 2 large frame Coal Houses, and all other Buildings necessary, such as Shops and Houses for the workmen.

This Spring is one of the largest in Missouri, discharging at the lowest time 7,000 cubic feet of water per minute. The Ore Bank from which the Ore has been heretofore taken is about 600 yards from has been heretofore taken is about 600 yards from the furnace; it is the Specular Iron Ore, the best for making Bar Iron, and the quantity inexhaustible.—

It is an Iron Mountain, 400 feet above the level of the Maramec River; the ore is entirely uncovered, and there is an easy descent and a good road from it to the furnace. it to the furnace.

The lands have been carefully selected by one of the owners with a view to the interest and convenience of the Works, and are situated principally on the Maramee River and its tributaries, embracing the best bottom lands and water powers. The following detached tracts, comprized in the above quantity, were selected for the advantages they pos-

183‡ ACRES in T. 40 N. of R. 8 W. in Sec. 3, near Wherry's Mill, in Osage Co.; entered to secure a very valuable Mill power on the Branca Spring and a good landing on the Gasconade

River.

80 ACRES on Benton's Creek, 12 miles from the Works; entered to secure an extensive and valuable Ore Bank 24 miles from the Maramec, at a point where there is ample water power.

320 ACRES in T. 38 N. of R. 4 W. in Sec. 22 and 28, affording an extensive and valuable water power on the Maramec river.

160 ACRES in T. 37 N. of R. 3 W. in Sec. 4, embraces two inexhaustible and valuable Ore Banks and is 1½ miles from Water power sufficient for a furnace and Grist Mill, and is distant 6 miles from the above site on the Maramec.

80 ACRES in T. 37 N. of R. 8 W. in Sec. 33 in-

80 ACRES in T. 37 N. of R. 8 W. in Sec. 33, including an extensive bank of excellent Ore, and distant 14 miles from water power on the waters of the Gasconade River, in Pulaski Co., sufficient for Furnace and Mills. All those Banks are of the same kind as the one at the Works, and deemed inexhaustible.

Bank of the Missouri River, 4 Miles above the town of Hermann, purchased for a warehouse and landing, and is one of the best landings on the River.

Augusta, Sept. 2th, 1845

*44 1y

THE WESTERN AND ATLANTIC

Railroad.—This Road is now in operation to Oothcaloga, a distance of 80 miles, and connects daily (Sundays excepted) with the Georgia Railroad.

From Kingston, on this road, there is a tri-weekly line of stages, which leave on the arrival of the cars on Tuesday, Thursday and Saturday, for Warrenton, Huntsville, Decatur and Tuscumbia, Alabama, and Memphis, Tennessee.

On the same days, the stages leave Oothcaloga for Chattanooga, Jasper, Murfreesborough, Knox-wille and Neskville Tennessee.

Augusta, Sept. 2th, 1845

*44 1y

The lands above described are well timbered, and have been selected with a view to have an ample supply of wood and coal, for fences, building and other purposes. There are on the land valuable quarries of Limestone well adapted for Fluxes for the Ore, and also good quarries of Rock suitable for building. There are also on the land a great number the finest kind of Springs. A large portion of the lands are bottoms well adapted to the production of Corn and other crops. The Works are situated in a very pleasant and healthful part of the country. The Maramec ore is believed to be admirably adapted to the manufacture of steel.

A further description of the property at this time

A further description of the property at this time is considered unnecessary, as those wishing to purchase will no doubt view the property, which will be shown by the Agent, residing at the works.

The terms of payment required will be one-third of the purchase money in hand and the balance in

three equal annual payments, on all the property.

A more particular description of the property will be given, and further conditions of the sale made known, on the day of sale.

JNO. F. ARMSTRONG, Agent.

EORGE VAIL & CO., SPEEDWELL IRON T Works, Morristown, Morris Co., N. J.—Manufacturers of Railroad Machinery; Wrought Iron Tires, made from the best iron, either hammered or rolled, from 1½ in. to 2½ in thick.—bored and turned outside if required. Railroad Companies wishing to order, will please give the exact inside diameter, or circumference, to which they wish the Tires made, and they may rely upon being served according to order, and also punctually, as a large quantity of the straight bar is kept constantly on hand.—Crank Axles, made from the best refined iron; Straight Axles, for Outside Connection Engines; Wro't. Iron Engine and Truck Frames; Railroad Jace Screws; Railroad Pumping and Sawing Ma-Wrot, from Engine and Truck Frames; Railroad Pumping and Sawing Machines, to be driven by the Locomotive; Stationary Steam Engines; Wro't. Iron work for Steamboats, and Shafting of any size; Grist Mill, Saw Mill and Paper Mill Machinery; Mill Gearing and Mill Wright work of all kinds; Steam Saw Mills of simple and economical construction, and wary effective. ple and economical construction, and very effective Iron and Brass Castings of all descriptions. 1y1

VALUABLE PROPERTY ON THE MILL Dam For Sale. A lot of land on Gravelly Point, so called, on the Mill Dam, in Roxbury, fronting on and east of Parker street, containing

Ronting on and east of Parker street, containing, 68,497 square feet, with the following buildings thereon standing.

Main brick building, 120 feet long, by 46 ft wide, two stories high. A machine shop, 47x43 feet, with large engine, face, screw, and other lathes, suitable to do any kind of work.

Pattern shop, 35x32 fe, with lathes, work benches, Work shop, 86x35 feet, on the same floor with the pattern shop.

pattern shop.

Forge shop, 118 feet long by 44 feet wide on the ground floor, with two large water wheels, each 16 feet long, 9 ft diameter, with all the gearing, shafts drums, pulleys, &c., large and small trip hammers, furnaces, forges, rolling mill, with large balance

wheel and a large blowing apparatus for the foundry.
Foundry, at end of main brick building, 60x451 teet two stories high, with a shed part 451x20 feet, containing a large air furnace, cupola, crane and corn oven.

Store house-a range of buildings for storage, etc.,

200 feet long by 20 wide.

Locomotive shop, adjoining main building, fronting on Parker street, 54x25 feet.

Also—A lot of land on the canal, west side of Parker st., containing 6000 feet, with the following building the constanting. buildings thereon standing:

Boiler house 50 feet long by 30 feet wide, two sto-

Blacksmith shop, 49 feet long by 20 feet wide.
For terms, apply to HENRY ANDREWS, 48
State st., or to CURTIS, LEAVENS & CO., 106
State st., Boston, or to A. & G. RALSTON & Co.,
Friiadelphia.

THE NEWCASTLE MANUFACTURING Company continue to furnish at the Works, situated in the town of Newcastle, Del., Locomotive and other steam engines, Jack screws, Wrought iron work and Brass and Iron castings, of all kinds con-nected with Steamboats, Railroads, etc.; Mill Gearing of every description; Cast wheels (chilled) of any pattern and size, with Axles fitted, also with wrought tires, Springs, Boxes and bolts for Cars; Driving and other wheels for Locomotives.

The works being on an extensive scale, all orders will be executed with promptness and despatch. Communications addressed to Mr. William H.

Dobbs, Superintendent, will meet with immediate attention.

ANDREW C. GRAY, President of the Newcastle Manuf. Co.

New York AND ERIE RAILROAD Company Notice. The Stockholders of the New York and Erie Railroad Company are hereby notified, that the annual election for Directors of the company will be held at the office, No. 45 Wall st., in the city of New York, on Tuesday, the 15th day of October next, from 10 o'clock, A.M., to 3 o'clock,

The Transfer Books will be closed from the 22d

of September until the day after the election.

By order of the Board of Directors,

NATHANIEL MARSH, Secretary.

New York, September 12, 1846.

4138

CUSHMAN'S COMPOUND IRON RAILS

etc. The Subscriber having made important improvements in the construction of rails, mode of guarding against accidents from insecure joints, etc.

—respectfully offers to dispose of Company, State Rights, etc., under the privileges of letters patent to Railroad Componies, Iron Founders, and others interested in the works to which the same relate. Companies reconstructing their tracks now have an unapries reconstruction of rails, mode of guaranteed equal to any, either domestic or foreign. Any shape or size made to order. Terms, and the provide their patents of the provided to the provid panies reconstructing their tracks now have an op-portunity of improving their roads on terms very ar-vantageous to the varied interests connected 'w. vantageous to the varied interests connected with their construction and operation; roads having in use flat bar rails are particularly interested, as such are permanently available by the plan.

W. Mc. C. CUSHMAN, Civil Engineer, Albany, N. Y.

Mr. C. also announces that Railroads, and other works pertaining to the profession, may be constructed under his advice or personal supervision. Applications must be post paid.

James P. Altare,
Peter Cooper,
Murdock, Leavirt & Co.
J. Triplett & Son, Richmond, Va.
J. R. Anderson, Tredegar Iron Works, Rich-

mond, Va.

by ly pe ar

B

ne sh

av

be of

ha th as CO ti

of si

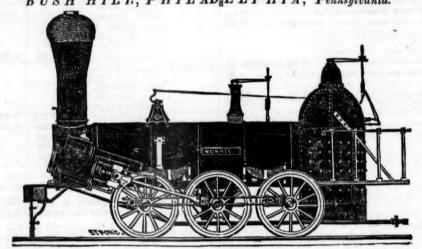
u St

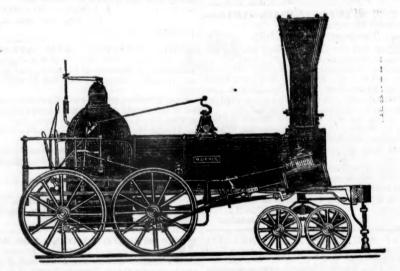
ea

de

mond, Va.
J. Patton, Jr.
Colwell & Co.
J. M. L. & W. H. Scovill, Waterbury, Con.
N. E. Screw Co.
Provicence, R. I.
Eagle Screw Co.
William Parker, Supt. Bost. and Worc. R. R.
New Jersey Malleable Iron Co., Newark, N. J.
Gardiner, Harrison & Co. Newark, N. J.
5 000 to 30.000 made weekly.
35 1y 25,000 to 30,000 made weekly.

NORRIS' LOCOMOTIVE BUSH HILL, PHILADELPHIA, Pennsylvania.





MANUFACTURE their Patent 6Wheel Combined and 8 Wheel Locomotives of the following descriptions, viz:

15 inches Diameter of Cylinder, × 20 inches Stroke. Class × 24 46 2 14 × 20 44 66 44 3, 144 121 20 44 4. 44 44 X " × 20 24 44 44 5. 111 × 18 23 44 46 66 64 6, 101

With Wheels of any dimensions, with their Patent Arrangement for Variable Expansion. Castings of all kinds made to order: and they call attention to their Chilled Wheels, for the Trucks of Locomotives, Tenders and Cars

NORRIS, BROTHERS.

Cumberland Road.

The Baltimore Patriot of Tuesday gives this exlarities which have latterly occurred upon the Baltimore and Ohio railroad.

The occasional delay in the arrival of the cars at Cumberland is caused, so we learn, by the detention which sometimes necessarily takes place between Baltimore and Har equal to 61 per cent., even though a portion of the its business and enlarge the field of its opeper's Ferry, where, as is known, new rails road was in use only a part of the year. are being put down. It will sometimes happen, despite every precaution, that the engine gressed as was anticipated, and trust that measures sufficient means have been provided by the is retarded for a short time from this cause. will soon be taken to "revive and complete that enstate to carry it to Cross Plains without any short time, and then all cause of complaint unfinished state. will cease, or all excuses for delay be taken

of freight carried greater than any one could opportunity presents of referring to them. have anticipated. These things may have these will also be remedied in a short time, as the company have now making several lo-

comotives of very great power.

ly

That the stages occasionally fail in their time, is to be ascribed to the exceeding heat such, on several days, as to render it impossible for horses to come up to the time required. But every effort is made to take the passengers through in the time fixed, and we proprietors should see that it is given.

That this great central route between the east and the west is the best, is proven by the popularity which it has established for itself, and by the preference which is given to it over all others by travellers. We believe it deserves this popularity; and when the new rails are placed on the road between this city and Harper's Ferry, making the entire line of railroad from Baltimore to Cumberland qual to any in the country, the passage will be made to Cumberland, and thence to Wheeling, in much shorter time than even now. We understand, indeed, that it is intended by the proper authorities, in a short time, to make a thorough examination of the whole route hence to Wheeling, and that whatever is found to be wrong, to contribute to delay, or cause dissatisfaction to the travellers, will be inquired into and remedied as far as it can

Georgia Railroad and Banking Company. Annual Report.

The following reports of the president and engineer of the Georgia Railroad and Banking company has been some time in hand, and its appearance

in the Journal quite too long delayed. We have long considered the people of Georgia

entitled to high praise for their enterprize and energy in the prosecution of their important works of intercommunication. They have persevered, through great difficulties, until their work is completed; and a connection formed with the state road, which now extends nearly to the Tennessee river.

These two roads, together with the Charleston and besides branches. When the State road shall be last. completed to the Tennesee line, and the road from

planation in reference to the detentions and irregu- the Montgomery [Ala.] road made, then will this understood by the stockholders to require fur-

But the work of relaying the road, with a terprize." It is too important a link in the great unnecessary delay. The progress of this new and massive rail, will be completed in a work of southwestern railroads to remain in an road has already been marked by important

There is also another branch, the Hiwassee road The travel over the road this summer has also be again taken hold of and completed. We been unprecedentedly large, and the amount shall not cease to urge on these works whenever an accustomed channels and turn to the South

PRESIDENT'S REPORT.

and Banking Company:

A statement of the cashier, hereunto anthe company, at the end of the last fiscal year: of summer, which, so we learn, has been and the report of the chief engineer, herewith presented, exhibits in a clear and satistactory manner, the condition and management of the road, up to the same period.

For obvious reasons, the operations of the bank have been very small during the past Still, if more energy is wanting, the stage year. Though the institution possesses great sides furnishing, however, a depository for success. the safe keeping and management of our fiprofit.

> be seen that the net profits of the road For the same time the interest paid was........\$56,773 56 Reduced by interest, discount, etc., received........36,154 38 Balance of interest..... 20,619 18 Add bank salaries, taxes and

By the statement of the engineer it will

Leaving net\$148,363 45

properly chargeable against both bank and State road, at Atlanta, was made in Septemroad has heretofore mainly depended for sup-business, has also been made. Our invest-port, have been uncommonly short—and 42 ment will now assume more of a fixed and miles of the road were in use only half the settled character. As the road and outfit year—this result is very favorable, and could have cost about one million more than the only have been secured by the extension of capital stock, a debt for a part of that amount Augusta road, form a continuous line of 415 miles, the road, which was completed in September has been necessarily contracted. The finan-

thence to Nashville, be-as it must certainly soon be ence to our improvement, have been fully -constructed, and the contemplated connection with discussed in previous reports, and are too well company begin to reap the rich returns for which they have labored, and which they so eminently denot the surplus means of its own, to embark further in railroad enterprize, the stockholders By a reference to the president's report, it will be feel a deep interest in the progress of such seen that the net earnings were, during the past year, connecting improvements as must increase rations. The State road has already pro-We also regret that the Rome branch has not pro- gressed to a point near the Oostenaula, and changes in the business relations of the west, and when it reaches Cross Plains (fifteen to Knoxville, long since nearly graded, which must miles from the Tennessee line,) a very large amount of trade and travel must leave their Atlantic coast. Should the State road be completed to Chattanooga, and the recently contributed to the delay complained of, but To the Stockholders of the Georgia Railroad chartered road from that place to Nashville be built, the value of the business can scarcely be estimated. which would seek the shortnexed, will show the financial condition of est outlet through the ports of Georgia and Carolina.

> The short but important branch from the State road to Rome, has not progressed as anticipated in a former report. This is the more to be regretted, as an enterprizing individual has, during the past winter, navigated the Coosa river, between Rome and the Ten Islands, with entire success; and the complestrength from its valuable property in the tion of this short road would divert the trade road, its banking capital is small, and the of the entire valley of the Coosa, and a large heavy and uncertain draughts upon it for the construction of the road, have been inconsis. tent with an extended banking business. Be- to revive the enterprize, with strong hopes of

> Important to our road as are the connecting nances, it is believed that this branch of the improvements already named, those to the institution has, at least, paid the expenses of its management; and as the road is now finished, and the cost of construction almost entance of an early completion of the Montgotirely liquidated, our banking operations may mery and West Point railroad, the directors be considerably extended with safety and recently agreed to guarantee the bonds of that company, for one hundred and twenty-five thousand dollars, to accomplish that desirable object. The board was not unmindful that for the last year are\$179,137 85 the credit of the company should be pledged with great caution for any purposes whatever. But deeming the object very important, and the security against loss entirely ample, the alance of interest...... 20,619 18
> dd bank salaries, taxes and incidentals....... 10,155 22 30,774 40
> guaranty was pledged on certain conditions, which, together with the measure itself, are respectfully submitted to the consideration of the convention.

The directors are now enabled to congrat-Or about 61 per cent on the capital stock af-ulate the stockholders on the final completion ter deducting interest and all other expenses of their enterprize. A connection with the road. As the crops of both cotton and pro- ber last, and a heavy and expensive increase visions, in that part of Georgia on which our in accommodations and outfit for an enlarged ces of the company have, however, been The bearings of trade and travel in refer- greatly simplified, and its liabilities are under of the net profits should be regularly applied ment of the extension beyond Madsion. to a reduction of the debt, while the conveni- cost of the new road has fallen considerably ence of many of the stockholders will be best within the estimate submitted to the stockconsulted by dividends of the remainder, holders before its extension was undertaken. the payment of \$80,000 of the 8 per cent. as follows: debt, during the past year, and a dividend of two dollars per share to the stockholders, in JOHN P. KING, Prest. January last.

Having given the report of the president, we now give that of the engineer, J. EDGAR THOMSON, Esq., who is probably entitled to at least as much credit for the completion of this important work as any other man. He has been connected with it, we believe, from the first surveys; and has given to it his constant and untiring efforts, until he has the satisfaction of seeing the work, not only in successful operation, but also yielding, even now in its infancv, a fair return upon its cost. He also has the satisfaction of knowing that he has accomplished as much work-as great an extent of road for an equal amount of money as any other engineer. He has acquired a reputation of which he may well feel proud: and we trust that he has been equally successful in his pecuniary affairs.

In closing his report, Mr. Thompson intimates that his connection with the company is about to terminate. There is but one reason that he could assign, satisfactory to us, for such a step-and that is, that he may take charge of, and carry through at an early day, the road from the Tennessee river to Nashville. If he has this in view, we cheerfully give our assent to the measure-and bid him Godspeed; as we shall then feel quite sure that that important work will be accomplished, to the great ad-contage of the Georgia railroads, as well as to that of the people of Nashville and Tennessee.

We give these reports entire, as we have heretofore done, that we may hereafter have them to refer to, by way of showing the increase of business on the line, and the advantages of railroads to an agricultural country. Our pages will show that we have devoted large space to this work, and given high commendation to its management. Yet we have fallen under the severe reproof (?) of its presiding officer, for having spoken, as he thinks, too favorably of another-and in some respects a rivalwork. As to the justice, propriety and good taste transportation, than any other. of such a course, on his part, we shall, at an early rail is of the form, weighing 40 lbs. per day, give the readers of the Journal an opportunity yard, laid on a continuous bearing of pine

We shall always speak freely-certainly it is our lently under such reproof, even if we are requested amounts: to take it quietly and say nothing about it.

ENGINEER'S REPORT.

To the Honorable John P. King, President of the Georgia Railroad and Banking

SIR: I have the gratification to report to the board, that the several lines of road which the company have contemplated building, are now in successful operation, embracing together 213 miles of railway, of which there are 171 miles upon the main line between Augusta and Atlanta.

That portion of the road, unfinished at the for use early in September, the period pro- we have made arrangements for building

easy control. A sinking fund from a portion mised for its completion, at the commence. 36 close freight cars, which will cost...\$21,000 00 This policy has been already indicated by Up to this period the disbursements have been

| f | Graduation | | \$262,801 14,930 | |
|-------|--|--|---------------------|----|
| v , t | Dried Indian | 5,818 79 4,717 95 4,476 05 1,686 47 | Total | |
| | Yellow river67 485 | 11,53202 2.24127 | | |
| 8 | Sundry small bridges | 2,241 21 | 50,630 | 37 |
| | Mud sills | 20,548 81 | 00,000 | ٠. |
| 1 | | 24,521 59 | | |
| | | 28,102 91 | | |
| | | 71,548 43 | | |
| 3 | | 11,646 74 15,232 59 | | |
| 1 | | 32,697 79 | | |
| 1 | and the superstructure | 100,007 10 | 404,298 | 86 |
| 3 | Extension of Augusta ware- | | , | |
| | house, and building offices. New foundry and stationary | 3,830 65 | | d |
| | engine house | 2,010 62 | | |
| 3 | Depots and division houses on | 0.000.04 | | |
|) | road | 3,270 84 23,434 76 | | |
| l | Engineering | 2,092 20 | | |
| 1 | Wells, pumps, tanks, etc | 2,045 98 | | |
| | Right of way | 18,810 48 | | |
| | Real estate | 11,365 81 | | |
| | Miscellaneous items | 3,128 78 | | |
| | | | 69,990 | 12 |
| | Amount | 4 | 802,651 | 90 |
| | In addition to this sum I have a | | ,001 | -0 |
| • 1 | to appuron to this sum I have a | urvanced | | |

Probable cost of unfinished work, con-sisting of covering and painting bridges, depots, division houses, extension of turnouts, etc. 10,000 00

Total cost of 68 miles of road, including \$105,000 paid for duty on iron \$819,984 23

The plan of superstructure adopted for the extension, is described in my annual report of May, 1844. From our experience thus far, we are satisfied that it is better adapted to southern railroads, that have a considerable The iron timber.

We have also expended during the year, aim to speak candidly and justly, but without fear or in the purchase of locomotives, etc., and the favor-in relation to railroads and their manage- construction of new cars, necessary for the ment. We may be misled, but we shall not rest si-increased length of the road, the following

| 40 new close freight cars\$ 10 stock cars | 22,000 4,750 | | |
|--|-----------------|--------|----|
| passenger cars | 5.080 | | |
| 1 long baggage and postoffice car | 1,100 | | |
| | 32,930 | | |
| Less value of five cars to replace two close and three open cars, worn out, and charged to ex- | | | |
| pense account, | 2,450 | 30,480 | 00 |

These added to our present stock, will make our complement-150 close freight and stock cars, 70 open cars, 10 passenger and 4 baggage cars.

ri

fr pl

ri no C

la en g g w o L g ti

Our motive power now consists of 6 second class freight engines with single drivers, 5 freight engines with six wheels all-connected, and 4 passenger engines. Three additional locomotives will also be required, one of which has already been ordered.

The warehouse at Augusta has been extended 127 feet, and is now 2881 feet by 40. The offices have been removed from the main building and placed upon its side, giving additional room for storage, which is now deemed sufficient for the wants of the company for many years. A new brick iron foundry, 40 by 80 feet, has also been erected, and material alterations and additions made to the shops. The erection of a larger engine house, and more comfortable quarters for our negroes, will constitute all the buildings that will be needed at Augusta. together with the removal of the car factory to the back part of the lot, will cost about eight thousand dollars.

From the annexed statement, (which includes the receipts for freight on the W. and A. railroad,) it will be seen, that notwithstand. ing a short crop of cotton in the region tributary to our road, the operations of the year present results by no means discouraging.

| BUSINESS. | | |
|--|---------|----|
| Passengers up | | |
| Extra trips, extra baggage, etc | | |
| Negroes in lots | 870 | 50 |
| Freight up | | |
| down | | |
| " between way stations | | |
| United States mails | | |
| Rents | 417 | 65 |
| Amount | 326,831 | 51 |
| Deduct amount paid to Western and At- lantic railroad for freight due to that | | |
| road from the commencement of its | | |
| operations, to 1st April, 1846 | 11.489 | 92 |

| EXPENSE | s. | | | |
|---------------------------|----------|----|---------|----|
| Conducting transportation | \$31,353 | 53 | | |
| Motive power | 36,406 | 46 | | |
| Maintenance of way | 53,592 | 56 | | |
| Maintenance of cars | 14.851 | 19 | | |
| | | | 136,203 | 74 |

For new locomotives, tenders, etc.....\$24,366 63 The customary statements exhibiting the receipts and expenses, in much detail, will be found among the accompanying papers.

The business of the road exceeds that of last year, \$43,592 07, of which \$16,079 27 was received from passengers, \$21,385 60 from freights, and \$6,129 20 from mails, etc.

The whole number of bales of cotton carried over the road during the year, was 56, 821, showing a decrease compared with the previous year of 21,127 bales. The down freight has fallen off, however, but \$14,819 To complete the outfit deemed necessary 56, owing to the transportation of other prodate of my last annual report, was opened for the increased business expected next year, ducts than cotton, to a greater extent than rity has been preserved.

With an average crop of cotton, our busi-ness would have reached \$350,000—the important part of the work was not brought

of the year.

eight

nger

cond

3, 5 cted.

onal

e of

40.

the

giv-

now

omiron ted,

ade

en-

ters

ild-

ese ory

out in. and nd.

tri-

ear

65

51

92

59

35 10

e

of

C.

r. e n nearly 66; of these, there was an average of 21 cents each. of 5 per day each way, entered through from Charleston to Montgomery.

gia, our freight cars run through without transhipment. This arrangement enables us to carry freight at reduced rates, materially increases the usefulness of the road, and extends the circle of its influence.

The average cost of maintenance of way per mile of road, is \$274 80, which includes tends the circle of its influence.

The enterprize that we have been for many years so arduously engaged upon, has been brought into successful operation; and it gives me pleasure to add, that those share-

statements of northern works penetrating ag- mile. ricultural and mineral districts. The amount connecting the Atlantic and western states.

her citizens, make her the great depot of these charge. products, and consequently the point for ex-

1844. 1845. amount calculated as the probable receipts Conducting transportation. 17½ cts. 16½ cts. 139 cts. from the first year's business, after the completion of the whole road—although the most important part of the work was not brought.

The number of passengers transported over The average number of passengers, car- the road during the year, is equal to 2,183,

The whole tonnage of the road, exclusive of materials for repairs, and including iron The completion of the Western and At and lumber for the extension, is equal to 3,lantic railroad to Oothcaloga, has virtually 440,000 tons carried one mile, costing an extended our road 80 miles beyond Atlanta, average of 2 cents per ton per mile. The making the whole length of road from Augusta, 251 miles, (upon which the maximum cluding the transportation of the Western gradient does not exceed 37 feet per mile,) and Atlantic railroad iron, is equal to 2,990, which is nearly double the length of continu- 000 tons; which, if no charge is made for ous line in use previous to September last the transportation of materials for the exten-Under an agreement with the state of Geor- sion and repairs, will give the cost per ton management of the various interests of the

At Oothcaloga we fairly enter the grain and provisions furnished negroes laying iron growing region, and our freight lists-which on the extension. The cost next year will

This department has been placed under of this description of freight is yet small, but with the extension of the road to the Tennes- as resident engineer, who was engaged for All of which is respectfully, such see river, it will become equal to, if not greater several years upon the construction of the see river, it will become equal to, if not greater several years upon the construction of the than is now transported upon any railroad road. His long experience, professional skill your obedient servant,

J. Edgar Thomson, and great integrity of character, render him The easy access to the seaboard from Au- eminently qualified for the post he fills; and gusta, either at Charleston or Savannah, must, I feel entire confidence, that this branch of if seasonable efforts are made on the part of the service may be safely entrusted to his

Carolina company should reduce its charges business of the road, rendered it necessary to is attended with less danger than other modes. -will not exceed a half cent per pound; a adopt a new system of running the freight In proof of this let us look at facts. We are rate, which must divert from the Mississippi trains, and add to the force several untried informed that since the opening of the Eastern the transportation of a vast region of country men, the trips have been performed with more railroad about 4,000,000 of passengers have now tributary to New Orleans. It has been than their usual regularity. The average passed over the road, and that of the entire our practice heretofore to place the rates of speed of the passenger trains, was increased number not a single passenger has lost life or freight on these articles comparatively low, four miles per hour, which, for a time, caused limb! Now in what other way could these deeming it true policy to encourage this some irregularity in their trips, and has ren-transportation, even at cost charges, relying dered it necessary to incur heavier cutlays on comfortably? Let us suppose them placed

The increased receipts of the road, notwithstanding the reduced rate of our charges of about \$5,000. If we deduct this sum place all the deficiency in the crop, exhibit results from the expense account, (\$136,203 74,) that must be gratifying to every stockholder, there will remain \$131,203 74 as due to the particularly to the advocates of its extension beyond Madison, by which alone its prospeto to $41\frac{1}{2}$ per cent. of the receipts. The expenses per mile, run by the trains, and the removal of an equal quantity of plate rail-including the defective bars-to the turnouts.

The increase of our business, and the demand of the public for high speed, for which the plate rail is not well adapted, will, I am convinced, at no remote period, render it necessary to relay this part of the road with a heavier rail throughout. This might be done as far as the material would reach, by the ried both ways during the year, per day, was 645 carried one mile, at a cost to the company erection of furnaces and a rolling mill, with which to convert the present iron into a heavier rail; but I apprehend that it will be found more economical to sell the present bar and purchase the article desired.

In closing this report—the last annual com-munication that I shall probably make to the company-I cannot refrain from expressing my sincere acknowledgements to the board and stockholders, for the uniform confidence that they have manifested, throughout our connection, in my professional plans, and the company committed to the discretion of this

gives me pleasure to add, that those shareholders who have patiently continued with us have heretofore been filled almost entirely be somewhat increased, from the necessity of to the final consummation of the object for which we have struggled, against adverse cirexhibit the same variety of the products of the soil and mines, usually noticed in the statements of northern works penetrating against adverse circumstances, have not only the gratification of having been instrumental in scattering instances of northern works penetrating against adverse circumstances, have not only the gratification of having been instrumental in scattering instances. country, but they have made an investment in a property which yields a fair return for their

All of which is respectfully submitted by

Chief Engineer and General Agent.

Miscellaneous Items.

Safety of Railroad Travelling .- It is an impression, says the Boston Traveller, some-what prevalent in the community, that travelchanging them for merchandize for the consumption of the interior. The whole freight Arms in a manner very satisfactorily. With ger than any other mode of conveyance. On agricultural products, from Chattanooga the exception of an interval of a few weeks, We are fully convinced that this impression to Savannah, and to Charleston—if the South when the sudden increase in the length and is erroneous, and that in reality "car riding" on receiving a return freight, from the proceeds of their sale, which would afford remunerating rates. I am fully satisfied that this policy should be continued.

The lower 75 miles of our road, it will be coach, they would require 400,000 coaches munerating rates. I am fully satisfied that this policy should be continued.

In stage coaches, and allowing 10 for each coach, they would require 400,000 coaches and 1,600,000 horses. If these coaches should be extended in a line, each occupying two The expenses of working the road, include use for nearly nine years, the iron does not rods, they would form a continuous line 2500 the transportation of about 3,000 tons of iron seem to be greatly worn. A few bars have miles long, and if they should move constant-and other materials for the extension, an ave-been broken at the spike holes, and others by at the rate of 8 miles per hour, it would

to pass any particular place.

if we put 200 in each boat, we shall need 20,000 boats, and these, allowing 40 for every mile, would form a continuous line 500 miles in length! Or, if we arrange them in a square, allowing 40 in width and 40 in length to every mile, we shall have more than 12 miles square, or about 150 square miles of What a fleet this would make! steamboats.

We think a glance at these facts and suppositions will convince any one that the modern mode of rail riding is the safest mode of riding, and certainly it is the most comfortable, rapid and cheap mode. It is true that the road on which our calculations are based has been managed with great care and skill, inst., the adjourned meeting of the stockholdbut we do not doubt that all other roads will ers of the Rome and Memphis railroad, asgive results sufficiently favorable to confirm our position.

Essex Railroad.—Considerable progress has been made in grading the past week, notwithstanding the great heat of the weather .-The bridging across Fry's mill pond is near ly completed, and almost the whole line will be graded from North river to Grove street by the middle of next week. The laborers have been at work more than 20 days. The ease and facility as well as cheapness of constructing a road over this route exhibits in bold relief the grand error of the early managers of the Eastern railroad in determining on their location for the route to Boston. Danvers Cour.

The Madison and Indianapolis railroad pense of about \$1,200. Some years hence, cost of the work fully equipped, cannot exthe culvert must be permanently repaired at ceed half of the capital stock subscribed. a cost of about \$8,000. The injury to the

merchandize and furniture shipped on the city in about two hours! It will be borne in Wabash and Erie canal in Indiana, have mind that the wires are not as yet connected been reduced to 20 mills per 1,000 pounds between New York and Jersey city, and that for each mile not exceeding 100 miles, and the communication and answer had both to 15 mills per 1,000 pounds for each mile in be re-written at Jersey city and Philadelphia. addition to 100 .- Pathfinder.

Boston and Montreal Road.—The Concord soon girt the Union. Courier remarks that the opinion is now gitween this place and Meredith Bridge will \$400,000 per annum, are getting on rapidly the other in the evening, beginning at 8 o'clock." be entered upon immediately, and that the with the first steamship of their line. She is due despatch. Operations have already been the 1st of March next. The second steam. commenced on the bridge, over which the ship will be put under contract some time dust during the hot weather, an expedient has been road crosses the Merrimac in this town.

Ice Business - Accounts from Boston state that the sales of ice in that city have increas mont and Massachusetts railroad is being forwarded one-third over those of any previous year. ed with much spirit, and the prospects are very pro-The business there is carried on with great mising. system and economy, and the ice sold at low rates. Hence its use is rapidly increasing be opened by the first of March next; and to road, would be very glad to realize the benefits of

require about 312 hours, or 13 days for them for it every year. It is now a large article of months past, the prospects of the road have

Walpole Railroad.—The Dedham, Mass., Democrat says "we understand that the prospect is very encouraging in relation to the but a portion of the way is ready for the rails, road to Walpole. A large proportion of the stock is taken up, and we learn that the ow- printing press, lately invented in London, which ners of the land through which it is to pass, with ordinary power, viz: one man at the rounce, have manifested the utmost liberality in rela-will work off four times as fast as any other press, tion to it, as regards damages, etc. A call the steam press or power excepted, has yet been able for a meeting of the company is advertized to to work. A strong hand can work from 1200 to 1500 be held at Sumner's hotel in South Dedham, impressions an hour. The size of the press is about on Friday the 2d of October next."

Rome and Memphis Railroad .- On Thursday last, says the Rome Journal of the 16th sembled at the court house in that place, for further preliminary arrangements in relation to the construction of the road. On that day the entire capital stock of \$150,000 was sub scribed, and the sum of \$15,000 (\$5 on each share.) paid in. The stockholders proceeded to the organization of the company, by the election of directors.

The following gentlemen were chosen diectors: John P. King, Dan'l Tyler, Alfred Shorter, Wm. R. Smith, J. W. M. Berrien, Dan'l R. Mitchell, John E. Park.

Subsequently the directors assembled for the purpose of electing their officers, when the following gentlemen were chosen: Wm. R. Smith, president, John E. Park, secretary and treasurer.

The road will extend from Kingston, dewas not so much injured by the flood as the scending the Etowah river, to the junction of western papers represented. A letter from that stream with the Oostenaula, the distance the president of the company says, that the being, from the survey already made, about damage will be repaired in a week, at an ex- 172 miles. It is estimated that the actual of the passage of the new American tariff; a fact

road does not interfere with its constant use. "A communication was made from Buffalo to Baltimore last week, and an answer was Reduction of Tolls .- The rates of tolls on received at the telegraph office in the former Thus this great work is progressing, and will

Ocean Steam Navigation .- We learn from road will be completed to that point with all to be completed and commence running on next month.

We learn from the Boston Times that the Ver-

amongst all classes, who discover new wants Athol by the first of July. For four or five this experiment, however-if there be any!

pass any particular place.

shipment to all parts of the world. In Lon very much improved, and there is no reason why it will not be carried forward to comple. tion-in fact, from Fitchburg to Miller's river, it is already not only under contract,

> The Baltimore Sun gives an account of a hand that of the common double pull press.

> The directors of the Cape Cod branch railroad at their meeting on the 8th inst., chose a committee to engage an engineer, and have the road located immediately.

Cur Gee Mi Bui Cai Rai Wi A 1 Internation of variance circ people the cortion of the cortion of

per for of i see tha lea no un

Se no gir an en co Its wi ap tio the to up of

di in m of th to th ri

New Route between Boston and New York .- The Boston Times says that a large and heavy steamer of 1450 tons burthen, and 315 feet long, is in the course of completion at New York, which is intended as the pioneer of a new line about to be established to run from that city to Fall River, and from thence to this city by railroad. She is building under the direction of Capt. Joseph Comstock, and will cost, when completed, \$160,000. Another of the same size will be shortly contracted for.

In Less than No Time !- The Rochester Advertiser of the 18th inst. says, yesterday at a quarter before three, we received word from Boston, via New York, that there was no steamer in sight at three o'clock.

We learn with pleasure, from the Baltimore Sun that the Hon. Louis McLane resumed, on the 14th, his station as president of the Baltimore and Ohio railroad company.

Willmer and Smith's Times says that "the British iron trade has sensibly improved in consequence that will be gratifying to the American iron trade, as it must tend greatly to relieve any excess of apprehension that may have been thoughtlessly and foolishly engendered."

Buffalo Telegraph.

The Buffalo Commercial remarks in reference to telegraph lately finished from New York to that city, that "the connection of New York city to Buffalo, by telegraph, which, when first talked of, was received with a smile of incredulity, is complete, and communications between the two terminating points are now interchanged with ease and regularity. By an arrangement entered into early last month, the papers in Albany, Troy, Utica, Syracuse, Auburn, Rochester and Buffalo, will be furnished with reven in confidence by the friends of this road, the New York Express that the "Ocean ports twice a day from New York-one in the afterthat its affairs have been placed on such a Steam Co.," which has the patronage of the noon, at half past 2 o'clock New York time, embrafooting that the construction of the road be- United States government to the amount of cing the markets, and a brief summary of news;

Something Novel.

A late European journal says that the "travellers on the Dutch railroads, being much annoyed by the devised for the purpose of preventing annoyance by attaching a car pierced with holes, behind the tender. The car is filled with ice, which, being melted during the journey, effectually lays the dust !"

This may do, but we should hardly think it practicable. The demand for ice would be great, at all The first section to Gardner is expected to events! Passengers who go over the Long Island

ave

son

ple.

R ri-

act,

ils.

and

nich

nce.

able 1500

oout

d at

e to

im-

The

mer

the

endlish-

rom

mn-

will

erti-

r be-

Vew

three

Sun

4th.

Dhio

Bri-

ence

fact

ade,

ap-

and

e to

city,

falo.

re-

and

oints

By

the

urn,

re-

fter-

bra-

llers

the

been

e by ten-

elted

rac-

t all land its of Railroad iron.

| PICINO | IFAH COM | Total Tibe |
|---------------------------------|----------------|----------------|
| Cumberland road . | | |
| Georgia Railroad | | ompany.—An- |
| Miscellaneous iten | | |
| Buffalo telegraph. | | |
| Cars Minor com | forts and conv | eniences6 |
| Railroad connection Carolina | | orth and South |
| Low fares upon 1a | ilroads | 65 |
| Atmospheric railw | ay system in I | England6 |
| Dona - ilma mila ana 1 | | |

AMERICAN RAILROAD JOURNAL.

PUBLISHED BY D. K. MINOR, 23 Chambers street, N.Y.

Saturday, October 3, 1846.

Interesting facts......637

Cars .-- Minor Comforts and Conveniences.

As in human life small matters make up, accordor unhappiness-so the mere comfort or discomfort is nothing but downright cruelty. of large numbers may be produced at will by the tircumstances having a tendency to make all men in use. seculiarly sympathetic, to unite individual grumthe vast mischief produced by neglected trifles.

pend money upon the ornament rather than the com- New York. fort of cars as well as of vehicles of all sorts. Some Railroad Connection between North and from Philadelphia and New York.

South Carolina. In the first place then, we say that of the finest specimens of car building which we have seen are not open to this objection-and the hope To the Editor of the American Railroad Journal: that much good having been done may tend to more, leads us to enumerate several points of convenience united in any one which we have seen.

The Material for the Cushions, Backs, etc., of the not apt to retain the cinders, and therefore not apt to

Correspondents will oblige us by sending in their the heads of persons seated; should open and close sure, as we shall the report of the engineer, when with the greatest eace and yet he free from 11 their with the greatest ease, and yet be free from all shake we receive a copy. or rattle. Contrivances for these purposes are very third of those in a car are useless.

ing to which side the balance falls, either happiness obtrusive entrance in cars which make a long trip, tant links yet wanting in the great Atlantic chain.

Last of all, the fastenings to the doors should be variation of a few trifling particulars, which may strong, firm and free from useless friction, so as to

serve an article headed "Southern Railroad," in tern borders, nor as much per mile as some other not uncommon in some of the best cars, but not all which you notice favorably a recommendation for routes which we can refer to. capitalists to invest in a contemplated connection end, and so tasteful in its appearance, as the un- what process, then, can it be expected to construct a wich routes, a distance of 232 miles, the rate is but Its use favors cleanliness in the cars, for a single Camden, about 180 miles, over a similar country, more and Philadelphia routes—distance 93 miles by apt to soil the clothes—in fact there is but one object the estimate, calculated to mislead the public. My

Our object in publishing the proceedings of public numerous, and yet few answer. A spring operating meetings, or communications from Individuals, in on the sash seems the best means of preventing the relation to contemplated railroads, and rival routes, unpleasant noise, but the means of opening and is to endeavor to throw light upon the subject-to shutting the windows are generally such that one-draw attention to it, and, if possible, to promote the construction of such works as are required to com-Some means should also be supplied for exclud- plete the connection of, and to properly carry out the ing the sun light and admitting the air at the same railroad system. We have no private interest to serve time, if necessary. Few of those usually adopted nor griefs to asuage. The best route if possible—but are without fault. Contrivances, perhaps of wire a railroad at atl events over some route between the State Rooms, as they are now styled, are admira- and Charleston have a deep interest in the construcble contrivances, well suited for families with young tion of the lower route; and it behooves them to children, parties of two or more desiring privacy, move early in the matter, or the upper route will be or for invalids. Several cars in each train should likely to get the start of them. Of the relative merits have them, and as they are not constantly occupied of the two routes we cannot-for the want of accuby the same persons, many are thus accommodated. rate information-speak; but as to the great impor-There is another apartment which we need not tance of a railroad to connect the roads of the north name, but its uses are so necessary that no car should with those of the south, we are sure that we are not be without one. The absence of one with an un- mistaken in saying that it is one of the most impor-

> Low Fares upon Railroads, And the Camden and Amboy Railroad.

In a previous number we gave some extracts from happen to concern them. And when such numbers be easily opened and closed, and all broken or in- the "address" of this company, to the people of New are thus exposed either to pleasure or pain, under jured fastenings should never remain over one day Jersey, which exhibited the manner in which this combination originated, what privileges the company We may remark that one of the most comfortable enjoyed from their charter, what was the prospect Mers in general indignations—we cannot wonder at cars we ever entered, was one of the first built by ahead for them, and how they had managed from our friend Imlay, for the Philadelphia and Wil-the commencement of their operations. We con-In this view we think that in accordance with the mington railroad, some eight or nine years ago; yet cluded our remarks by saying that the managers plan we have marked out, the minor comforts and in point of durability of structure, ease of motion, had adopted a price which has proved a burthensome conveniences of railroad cars are well worth atten- and elegance of finish, we can refer with confidence and exorbitant tax upon through passengers, and to those made by Davenport & Bridges, of Cam- we promised to show what our reasons were, why We have already spoken of the tendency to ex- bridgeport, Mass .- and Eaton & Gilbert, of Troy, this company could, and ought to reduce the fare from the present high rate, (four dollars,) to and

> In the first place then, we say that the construction of the road from Jersey city to Bristol, has not cost In a recent number of your valuable paper, I ob- the proprietors more than other roads upon our eas-

The distance from New York to Philadelphia is between the northern and southern roads, by way of set down at about 90 miles, and the fare at \$4 brings Seats .- This should be strong, not easily discolored, Raleigh and Fayetteville, N. C., and Camden, S. C. it near four and a half cents per mile, for carriage, in -setting forth that a road can be constructed from first class cars. At the present high rates of congive them or their dust to the clothes. No substance Raleigh to Camden for \$1,000,000! The road from veyance, as compared with last year, on the Boston answers these purposes so well, is so cheap in the Gaston to Raleigh, 80 miles, cost \$1,600,000; by routes via Long Island railroad; Stonington, or Norcolored hair seating, now in use on many roads. continuation of that same road from Raleigh to one and seven-tenths cents per mile. Upon the Baltiwipe with a cloth removes all dirt, and it is the least for \$1,000,000? There must be some mistake in railroad, the fare—generally declared exorbitant also -is but \$3, or three and two-tenths cents per mile. From tion to it, viz: that from its slight adhesiveness, where object, however, is not to throw obstacles in the way Boston to Portland, (Me.,) a distance of 109 miles, the scat is not broad enough, a passenger reclining of a successful prosecution of that scheme, but to the price of fare is \$3 in first class cars-or an avtoo carelessly, may, by a sudden jerk, be thrown call attention to another, it may be a rival, scheme, erage of two and seven-tenths cents per mile. From upon the floor, or stop before he gets there at the risk having the same object in view, i. e., a connection Boston to Fitchburg, 50 miles, the fare is \$1 25, or of cutting in two his spine. All this may be reme. between the northern and southern roads. The two and a half cents per mile. The fare upon the died by the use of foot boards-one of the happiest scheme I have reference to is the contemplated road Boston and Concord route, is \$1 75, distance 75 introductions into some of our modern cars. By from Wilmington, N. C., to Camden, or some other miles, or two and three-tenths cents per mile. The means of these the seat is better retained in a variety point of connection, with the southern roads. The route from Boston to Plymouth is 37 miles, fare \$1, of positions, than could be done without them, on distance is about 140 miles, over a comparatively or two and seven-tenths cents per mile. From Albany the slippery hair covering—passengers are less apt level country; of the cost of which I will not hazto Boston 200 miles, the fare is \$5, or two and a half
to put their feet upon the seats when they can stow

zard a conjecture, as there is a corps of competent
cents per mile. From Albany to Buffalo, distance them more comfortably elsewhere -the comfort de engineers now engaged in making a survey of that 326 miles, the fare is \$12, or a fraction over three and tived from the varied posture which they admit— route, who will be prepared to furnish an actual resix-tenths cents per mile, which is altogether too high.

are all strong arguments in favor of one of the least

port of the cost of a road some time in October or

We are under the impression that a through ticket, costly and most useful conveniences of the car.

Windows—to combine all the desirable points—
whom we know to be a gentleman of intelligence
the car, should furnish light and air at and above

November next.

A Traveller.

A Traveller.

Traveller.

A Traveller.

Traveller.

To quite sure—therefore we give it as above. From Boston to Lowell, 26 miles, the fare is but 65 cents, or the car, should furnish light and air at and above and standing in the "Old North State"—with plea
two and a half cents per mile—and this last road is

known to be one of the most costly, and yet it is pay- gislative "log rolling,"-for the pamphlet before us this route on either side, would, in a short period be ing as well as any in the country.

prospective prosperity.

Upon some of these roads [and we now refer more particularly to the "Boston and Lowell" road, as towns and villages will spring up along the line, ships and steamboats.' the quantities of merchandize and freight pastrial, and therefore it is known to be practicable.

If then, the experiment adopted by a road as expensively constructed as most of the roads in New or private interest, or a determination to wield, with urged against our proposition. We cannot however for a moment entertain such an idea of those who manage this company, and will therefore, for

the present pass over this point.

The establishment of all great internal improvements are, or most assuredly should be, for the public good. The public is looked to, and appealed to, with a view to the convenience and general accomis not, and never was intended that legislation should give to the few stockholders in any chartered company, rights or privileges which interfere with the comfort, desires, or interests of the people, who through the line of road passes through a thickly populated their representatives, confer the privileges, secured country, and especially with a large city at each terby their charters. Nevertheless, in the instance before us, we have an exemplification of the results of England, especially, for proof of our statement—not the "wise policy," so strongly commended by the "ad-one of them but pays a handsome dividend, upon a dress of the Camden and Amboy railroad company," and which secured to that company for fifly years, less rate even; and not one of them but is permalegally, such monopolizing privileges as no company nently profitable, with a rapidly increasing busibefore it ever yet enjoyed in this country-such ness. We appeal, therefore, to the better judgment "privileges" as no corporation should ever have been of those directly interested in this matter, and ask suffered to enjoy! Upon this point, however, we their candid and careful attention to the facts we shall be more explicit hereafter.

the premises, and shall close our present article with ularly for some miles from each terminus, is caa few remarks and suggestions for the especial con-pable of vast improvement. sideration of the "powers that be" connected with the railroads between this city and Philadelphia.

may be contained in the charter of this company, or and villages would dot the line of this road, as is sation of its working, the defect in the valve whatever peculiar "rights" may have been delega- the case throughout New England, and the miles of has been remedied, and a new composition

declares, in substance, that by the most determined made to "blossom like the rose." We might quote numerous other routes, but the and extraordinary efforts, only, was this charter and the business of the route would be enhanced in every above are the principal ones north of Baltimore, and its extension obtained—those rights and privileges way, the travel would increase, and we feel certain will serve to show fairly the comparison we desire were given by the people of New Jersey to use and in the prediction, that within two years, a much to make. Upon the routes we have enumerated, not to abuse. That there exists a vast deal of mis- greater per centage upon the stock would be real-(nine in number.) and embracing all the principal management, and that an overbearing and offensive ized by the company. Travellers who now visit connecting links between Portland, Boston, New disposition is constantly being evinced upon this either city, but once a year, at \$4, would thus be in-York. Albany. Buffalo, Philadelphia and Baltimore, road, towards passengers, by those whose duty it is duced to go twice or thrice, in a twelve-month; the average fare is but a trifle over two and six-tenths to make the route a pleasant one, few will dispute! strangers would embrace the opportunity, while viscents per mile. These roads are generally in good Of this, however, we have nothing more to say, at iting one city, to enjoy a trip to the other, a luxury condition, the cars and appointments are, to say the present. Our object is to show, if possible, that the which cannot be afforded by every one, at the presleast, equal to those on the roads now under consid- fare ought to be reduced, and to convince the parties entrates: the business man would have his "country eration, and there is no falling off, apparent in their interested, that it can be done with increased profit to house," and the gentleman of leisure his summer the stockholders, and very greatly, increased benefit mansion, in the vicinity of the cities. The conveyand convenience to its supporters, the public.

We have shown, in the early part of this article, sing to and from all points is greatly increased, and that the fares, established on every other road, north to promote the public accommodation, and the general the companies who have adopted the principle of low of Baltimore, is very considerably less than upon good, that the company will secure the good will of fares, are succeeding beyond their most sanguine this, and in most of the instances quoted the price is the travelling community, and the people at large; expectations. This has been established by actual but about, or a little more than one-half that charged and that not only in the end, but immediately they it be contended, that the accommodations are any- their present unreasonable and exorbitant rates. England must necessarily be, has worked so well, thing more than they should be! The expense atwe can see no sort of reason save that of individual tendant upon conducting this route, and running the til the reasonable demands of the travelling commutrains, is no greater than proportionate on other well nity are attended to. relentless hand, the power possessed, which can be managed roads, and we assume that other roads yield a handsome profit, other roads are well managed, and other roads are in every way successful, with rates of fare 50 per cent. lower than this. We are not at this moment, prepared to say how much below two this country, who have watched the progress of the cents per mile, the carriage for passengers upon system, which has been as yet but indifferently unthese railroads can be made profitable; but we do derstood, or appreciated. The writer remarks very say-and the statistics will support us in the asserfor support, and the result has proved that when tion—that Two DOLLARS AND FIFTY CENTS for an at the moment his steamboat was in motion"—and these improvements have been properly conducted, hundred miles upon any of our principal eastern the principle of the atmospheric railway system, routes, is ample fare; and we sincerely believe if now but partially developed, will, in our opinion, at modation of the wants and wishes of the public, the the price were at once put down to two dollars, from stockholders have invariably been the gainers. It Philadelphia to New York, the stockholders would interest, than can now be conceived. We shall enreap a greater per centage than they now realize at four dollars.

All experience bears us out in this position-where minus-and we point the reader to the roads in New fare of two and a half cents per mile, and many at a have now presented. The country along the entire We now come to the matter directly at issue in route from New York to Philadelphia, and partic-

Were the price of fare to be placed within the reach of men of moderate means, the amount of sequence also of some slight imperfection in We contend then, that whatever of legalized power travel would be immediately increased; new towns the longitudinal valve itself. During the ces-

ance of merchandize for the accommodation, con-Upon this subject, the St. Louis New Era remarks venience, and wants of a new and growing populawell as certain portions of the Eastern and Norwich and very truly, that "in Massachusetts, the average price tion along the route, would increase the carrying Worcester roads, the price of fare has been consid- of passage on the railroad cars is two and a quarter trade, and while the stockholders were reaping a erably reduced from the original rates, within the cents per mile in the first class of cars, and one and growing advantage, the people who gave them their last year or two. The experiment has proven to a quarter cents per mile in the second class. The chartered privileges, and others from other states, work admirably-more passengers are carried over companies have prospered most and secured the would participate in the benefits accruing from and the routes, commutation tickets are eagerly sought largest dividends when the price of passage and intended by that gift. We again call the attention for, by the business men who desire a country resi- freight was kept very low. This has also been found of this company to these facts, and trust that they dence, ten or twenty or fifty miles from the city; to be the case in Europe. It is also the case with will be received in the same spirit with which these hints are thrown out; believing as we do, that by proper management, and by evincing a disposition upon the route to Philadelphia. Now none will will reap a far richer pecuniary harvest, by the say this road is not generously patronized, nor will change we propose, than by persisting to maintain

w ri It w po

pl w us m tif an ha th

pr th tiv

of en ter tiv se w

its ha to M wi

10

for

for

811

str

ter

qu pr

of

pa

ter

of

of

mo

ufa

me

of

mi H

the

wi

ma M

for

We shall again and often refer to this subject, un-

Atmospheric Railway System in England.

The article which follows, is extracted from the London Mining Journal," of August 8th. It contains information interesting, at least to those in aptly, that "Fulton was the object of raillery, even a future day, be the source of a higher and greater deavor to keep our readers familiar with the progress of the system-or of its failure, if it should fail of which we have little apprehension.

Progress of the Atmospheric Railway System .- (From the Reporter of the London

Morning Herald.)

A few days since, I had an opportunity of testing the speed on the Croydon atmospheric, with light passenger trains, with the velocity reached on the Eastern Counties line with the special train to Yarmouth, the working of which I gave about a fortnight ago .-Until within the last three weeks the Croydon atmospheric has ceased running for some time, in consequence of the melting, during the recent extreme high temperature of the weather, of the composition used to prevent leakage in the longitudinal valve, and in conted to this corporation, through the influences of le-"desert lands" which now skirt some portions of applied. This composition, it is said, will

be

ery ain ach

isit in-

th; ris-

ary res-

iry

ey-

ing

ga

eir tes,

and

ion

hey

by

ion

eral

l of

ge;

hey

the

un-

nu-

d.

the on-

in

the

ınery

ren

nd

m,

ter

en-

fail

ys-

on

of

ve-

ne

k-

y-

ne

ng he

ent

n-

in

es-

ve

us, likewise, the wisdom of receiving with exceed that. 1 do not indeed, us, likewise, the wisdom of receiving with exceed that. 1 do not indeed, 'Committee.—Referring also tific men on practical subjects. Fulton was of 40 tons weight? Yes. presumption; and just in the same way that maintain an average velocity over three miles the predicted tractive power of the locomo. of more than I have stated. tive was ridiculed, was the asserted capability emphatically disputed, and treated with contempt by the great promoters of the locomo- it will. tive system—the very men who had themselves realized to the public rates of speed, could not possibly be made to attain.

The atmospheric system, undoubtedly, has its advantages; its opponents assert, that it has many disadvantages. I shall not attempt to decide between the contending parties.-My present object is to point out very briefly with what it was said to be capable of perform-

That it has power, the actual working at I am about to give with prove, and safer insures steadier, more luxurious, and safer morning train from Croydon, and show what travelling than the locomotive, all will read it is equal to. The train consisted of dily admit. The questions to be decided before it can be declared commercially useful for long lines, are-Can regularity of departure and arrival be secured, and is the system sufficiently economical to warrant the construction of lines on the principle? These are questions into which I shall not here attempt to enter. To deal with the one, requires much more information than I am at 54m. 40s. present in possession of; and in the other is involved the propriety, as well as the power of maintaining a totally different system of passenger trains, and mode of accommodating the public. This is also too important a mat ter to be touched upon in a notice, the object of which is merely to elucidate two or three interesting facts connected with the progress of the system. In May, 1845, one of the most eminent railway engineers of the day. and himself, perhaps, the first locomotive manufacturer in the world, stated before a parlia mentary committee, that a three mile section of a 15 in. atmospheric tube would not, with a vacuum of 20 in., be equal to more than 17 miles per hour on a level with a 40 tons train. How encouraging to struggling genius that these mistakes of great men, when dealing with its inventions and discoveries, should be made public! On the 16th of May, 1845, Mr. Robert Stephenson, in his evidence be-

while the highest temperature of the tube du- of the short hand writer's notes of Mr. Ste- per hour, and that the maximum speed was

The history of the progress of the atmospheric system, up to the present power of working is extremely interesting. It teaches I do not think with a three mile pipe it would Yarmouth by the special train.

'Committee.-Referring always to trains

an object of mockery, even at the very moment his steamboat moved. It was not till it the case of a train starting after having stophad breasted the waters for some distance, ped-starting from a state of rest? No! I that the multitude who had assembled to wit am supposing a train put into a tube at the ness its failure were sensible of their own end and in motion; even then, it would not

Do you mean that if a train runs in, at of traction by the exhaustion of a 15 in tube say 17, that it will not do more than maintain the same velocity? No, I do not think

'I understand you, that taking a through train which never stops at all, it would trawhich they had been told the locomotive vel at the rate of 17 miles an hour from Ber wick to Newcastle? It might possibly exceed that when it came near the engine; but I do not believe the average in the three mile sections would exceed that. All my experiments here lead me to that conclusion.'

Such was the emphatic opinion, I say, of one of the first railway engineers of the day. what it is now doing, and contrast its power But what is the actual working of a three mile section of 15 in. tube, with 35 tons equal to, with a vacuum not of 20 in., but considat I am about to give will prove; and that erably less! I will take the usual 9h. 50m.

| | Three first class carriages—4 tons 2 cwts., eachtons. | | | |
|---|---|----|------|---|
| l | cwts., eachtons. | 12 | 6 | |
| • | One third class | 3 | 15 | |
| 1 | A third class piston and heater car- | | | |
| | riage Passengers, 97 | 12 | 0-28 | 1 |
| | Passengers, 97 | | 7 | 1 |

Totaltons. 35 1 The train left the Croydon platform at 9h.

| 3 | 2012 | | 1 | Time | per | quarter. | Vacuun |
|-----|--|-----|-----|------|-----|----------|--------|
| r | Mile posts. Started | | | | | seconds. | |
| ٦. | | | | | | | |
| f | | | | | | | |
| 3 | | | | | | | |
| - | 1 | 57 | | | | 0 | |
| | 1 | | 32 | | 3 | 0 | 711 |
| t | 1) | | 56 | | 2 | 4 | |
| 9 | 14 { rise 1 in 50 | 58 | 20 | | 2 | 4 | |
| 9 | 14 fall 1 in 50 | | 43 | | 2 | 3 | |
| | 14 | 59 | | | | 0 | |
| 9 | 2 | 00 | - | | | 9 | |
| , | | | - | | | 9 | |
| - 1 | Carried Street Contract Contra | 0 0 | | | | 9 | |
| - | ~ 3 | 0 0 | | | | | |
| | | | - | | | 8 | |
| 1 | 3 | | | | | 7 | |
| | 34 | | | | | 7 | |
| 1 | 31 | 1 | 10 | | 1 | 8 | |
| 7 | 31 | | 27 | | 1 | 7 | |
| | 4 | | 43 | | 1 | 6 | 121 |
| | 44 | 2 | 0 | | 1 | 7 | |
| t | 41 | | | | | 0 | |
| Z | Left the tube | | | | | | |
| 9 | | | - | | ., | | |
| | WWW. | 0 | 44 | | 0 | 4 | |
| , | Hill | | 1.1 | | | ****** | |
| | | | | | | | |

It is here seen, that from platform to plat-

work at a temperature of upwards of 140°, I give the following extract from a transcript 8m. 44s., which is something like 344 miles

while the highest temperature of the tube during the late very hot weather was about 132°. It is also stated, that the composition will work perfectly well at 20° below freezing point.

The history of the progress of the atmost the short hand writers notes of Mr. Stependor, and that the maximum speed was phenson's evidence, in proof of what I have 56°25 miles per hour.

The next through train, the speed of which I noted, was the 10°50 morning express train, also from Croydon. This train consisted of the same number of carriages, and of about the same number of carriages, and of about the same number of carriages, and of about

| Mile posts. | Time per quarter. Vacuum. h. m. s. Miles in seconds. Inches. |
|--------------|---|
| Started | 10 53 30 |
| Entered tube | 54 30 19 |
| 1 | 56 181 |
| 1 | 55 28 |
| 1 | |
| 1 | |
| 14 | |
| 14 | |
| 14 | |
| 2 | . 1010141 |
| 24 | |
| 21 | 4815124 |
| 21 | |
| 3 | |
| 31 | |
| 31 | |
| 31 | |
| 4 | |
| 41 | |
| 41 | |
| Forest Hill | |

The five miles were, in this journey, gone over in 6m. 45s.—that is, from platform to platform-or at the rate of 43 miles per hour; the maximum speed being 64.28 miles per hour, and the average speed for two miles out of the five about 62 miles per hour.

I will now compare the working of the atmospheric 15 in tube with that of the 6 ft. driving wheel engines used on the trip to Yarmouth with the 30 tons; and, in doing this, I shall adopt a mode by which the advantage is sure to be something on the side of the locomotive. In the trip to Yarmouth, the shortest distance run without stopping was from Norwich to that place, but as I could not make out the mile posts for the first seven miles after leaving the Shoreditch station. I am compelled to reckon from the mile posts beyond the stations. Of course it will frequently happen that the mile post is but a few yards, or nearly a mile from the station, I have therefore, reckoned from the second mile post past the stations on the locomotive line, while I have reckoned from the first only past the atmospheric station. The speeds will then stand thus:

| ** 4.4 | CITATIVE DEC | THE PERMO | | | |
|--------|--------------|------------|---|--|------------|
| 2. | 98 100 | | e. Brandon b. sec. per r 81 83 | n. 1st trip n. sec. per 87 73 | 59 |
| | 3)300 | 3)236 | 3)246 | 3)227 | 3)184 |
| | 100 | 79 | 82 | 76 | 61 |
| 36 m | iles per h | r, 45 56 d | lo. 43·9 d | 0, 47:36 | do. 61 do. |

Locomotive Yarmouth train43

It is here seen, that a train of 35 tons-viz: fore the Northumberland committee, stated form, a distance of nearly five miles, inclu-five tons less than the weight which Mr. Stethat the above was the limit of the tractive ding getting up and reducing speed when de-capacity of a three mile section of a 15 in parting from Croydon and arriving at the hour only, with 20 in. vacuum, was taken tube, with such a vacuum and such a load. Forest Hill station, the time occupied was through a three mile section of tube with a

or at 30 miles per hour faster than the maxi- her speed to the desired point of equality with piled into bundles consisting of three six-inch, mum fixed by that gentleman. The pistons the pattern boat. If the same change should and six three inch pieces, one of the six inch of both these express trains entered the tube within two minutes after the pistons of the down trains had left it. Speed, easy motion and superior safety are secured by the atmost Railroad Iron.

It the same change should and six three inch pieces, one of the six-inch be effected by the introduction of the same bars being iron that has been rolled twice. This forms the lower part of the rail, for the would astonish the world."

Railroad Iron. pheric system, and, without going into the question of economy, I would ask, if in addition to what has already been done in its infancy, railroad iron at the Wareham works: the atmospheric system can secure regularity with almost innumerable daily trains, who will be bold enough to assign a money value business, the first cargo having been shipped those above described, excepting that the to the public benefits that must, in such case, from the works on the 12th instant. It is grooves are cut in the form required for the result from such a realization.

furnishes that paper with the following memoranda says there is no establishment in that country of an experiment, which exhibits a careful estimate, at which better railroad iron can be manuand which will be read with interest-proving, if factured than at the Tremont works. the test was a fair one, that the anthracites of Penn- are eight furnaces now in operation; and sylvania are not likely to be so much injured, as when the works are completed there will be some have imagined.

made in 1843, by the great sugar refining 25 feet long and 20 feet in diameter. company of Boston, for the purpose of directing their own interests. It was made under called puddling and blooming. By these the superintendence of the president of the operations the crude pig iron is freed from company, and the burning of each kind of the oxygen, carbon and other foreign subcoal was continued for about a week. The stances, and changed into malleable iron. following was the result. The left hand co The pig iron is placed in a puddling furnace,

evaporated—both in pounds.

" From which it appears that-

1 lb. Lehigh evaporated 9 52-100 lbs. water. 1 lb. Beaver Meadow 9 08 " "

from the superior quantity of heat which they blooms. brought between the fire and the boiler; and to half its thickness. One heat is sufficient need all that it can be made to produce.

account in some measure for the superior speed next shallower groove, and so on to the last, ever provision shall be found necessary, and of American steamers over those of other na- which finishes the bar. No force is neces- within their province, to make our public tions. We are told that this thing has had sary after the end of the bar is entered; the works productive to the state, and most useone most remarkable test. A steamboat was friction of the rollers draws the bar through ful to the public, they will be found prompt built in Canada after the model of our South For railroad iron the bars are rolled down in making.

much lower vacuum at 47.36 miles per hour was taken to her help, and this brought up clipped off in an instant.

'The Yarmouth Register has the following interesting description of the process of manufacturing

The company is now employed in the manufacture of railroad iron, which is a new thought that it can be made as cheaply as it Pennsylvania vs. Nova Scotia Coal.

The correspondent of the Journal of Commerce cently visited the iron works in England, can be imported. A gentleman who has re-There thirteen. The large breast water wheel, at-

lumn indicates the quantity of coal used, and where it is raised to a very high temperature. The molten liquid mass is frequently stirred by the workmen with long iron bars inserted into a small opening in the door of the carbon and oxygen. After some time will be manufactured each day. paste. The doors of the furnace are then opened, and masses of two or three hundred the business upon this canal. weight are drawn out, and subjected to the

as air is a non-conductor, this circumstance to reduce the bloom to a bar. It is first passembarrasses the heat which remains.

On the part of Ohio we can anticipate no ed through the deepest groove, then passed want of the proper care of this matter from "These facts are full of importance. They back over the upper roller, then through the the present board of public works. What-

able to be cracked in rolling.

delines wit Ind bly plai abo

of a regulation of allo

pos

cou

we

pos cup the

this

and

per Sad ed l

nisl

T

ture that

rece lake not

of g

al n

Hul

T adds

veri our

resi

stat not

ter

this four

the

mir

out pur

men

rior

can

our wh alm eral fact min

mon

These bundles are placed in a furnace, and their temperature raised to a welding heat. They are then taken out and passed several times through a pair of rollers similar to shape of the rail. The whole operation of rolling out a rail is performed in two minutes and ten seconds, a much less time than it would require to give an intelligible description. The rails are cut by circular saws, 18 feet 31 inches long; but are only 18 feet long when cool. The rails are placed on a surface having three inches curve, and when cool, they are nearly straight. Each rail is "This experiment," says the journal "was tached to the rolling and other machinery, is carefully examined, and if any flaw or imperfection is found, it is repaired. The last operation is making them perfectly straight by means of a long lever. They are then piled and stuck, like so many boards in a lumber yard.

The rails when piled, are straight, smooth and free from flaws. The iron is of the best quality. We heard those who were judges of the article say, that none better had ever been manufactured. The company are now making twelve tons per day, and when the

Wabash and Erie Canal.

The Toledo Blade gives the following account of

The business of this noble channel of comaction of a heavy tilt hammer, by which a merce is augmenting so fast that fears are b. Sidney and Pictou......447 " "portion of oxyde of iron, carbon and other entertained of a deficiency of water on Fort heterogeneous substances not consumed dur- Wayne level. Already this deficiency is cites are worth more than double the same ing the fusion, are forced out. The work-manifest, while the country has but begun to weight of Nova Scotia coal for generating men hold and turn the iron under the ham-steam, and therefore that the difference in mer with long iron bars, which become weld-level has not, for a portion of the present seaprice, if any, is no compensation for the dif ed to the half molten mass. This operation son, been kept as full as easy navigation reference in value. The great superiority of is called blooming, and the iron, after being quired. The feeder from the St. Joseph, the anthracites results not entirely, if chiefly, subjected to the action of the tilt hammer, brought in upon it, is relied upon to supply a long line of canal east and west. This is produce; but in part at least, from the superior facility with which the heat of the an-the blooms are converted into bar iron. The ness. An additional supply must be provided thracites is brought into action. The vast blooms are again heated, and passed several forthwith. Our fall business, it is apprequantities of smoke and gas which are emittimes between a pair of heavy cylindrical hended, will suffer for want of this supply. ted from bituminous coal carry off with them cast iron rollers, a foot or more in diameter. We would, therefore invite the prompt attena great quantity of heat, and require the fire On the circumference of each of the rollers tion of the proper officers in Indiana and to be placed at a greater distance from the boiler, by which a larger volume of air is bar, and the last of a series of a depth equal canal is rapidly augmenting, and both states

America. The builders were disappointed to one inch in thickness; one-third are six inches wide, and two-thirds, three inches that a sufficient supply may be provided by the South America. Nothing The bars are cut into pieces four feet long by making a reservoir and feeder on the St. Mawould cure the disparity until Lackawana coal machinery. A six inch bar of cold iron is ry's. This should be examined into without

with water.

re

ch he

nd

to the the of tes

it

19-

feet

hen

il is

last

ght hen n a ooth

best

ges

ever

won

the tons

nt of

om-

are

Fort y is

n to

This

sea-

n re-

eph, ly a is is busirided

pre-

oply. tten-

and the tates e no

from

7 hatand ublic

use-

ompt imes d by Mathout about that co-operation.

A Railroad Dinner.

A traveller in England gives the following sketch

in American style, and the seats were taken possession of by a very hungry army of oc-cupation in less than one minute. Woe to They were called to pieces, went every way and brought nothing. The diners, seeing there was no more to be made of them, fell upon the viands actually before them in desuper the viands actually before the viand Saddles of mutton and legs of pork disappeared by magic, and a great extent of pastry vanished like dew, before the bell rang."

Interesting Facts.

The Detroit Advertiser in an article upon the naprepared to receive orders to mat extent, deliverable volume, if desired, and forwarded by after the 1st of Octobet next, for heavy rails of any otherwise, as directed by the purchaser. Please address E. Heige, Railroad Jos and Hubbard's store.

The Lake Superior News extracts the above, and of the store of the superior of the super

adds as follows:

metals, as separated, at Messrs. Robbins metals, as separated, at Messrs. Robbins to 200 tons of No. 1 Phoenix to 200 tons of No. 1 "We copy the above from the Detroit Advertiser, of the 28th ult., and while some of our friends seem skeptical as to the reported result of the assay, we must be permitted to state that we can see no reason why it should not be true. Aside from the known character and integrity of Messrs. Robbins and Hubbard as assayers, the fact that the mineral of this region presents an entire originality, and is our friends seem skeptical as to the reported this region presents an entire originality, and is found differing from all other mining sections of the world, is sufficient to lead us to adopt the opinion that gold even may be found bers have for sale Am. and English bar iron, of all mingled with the copper, and that too, without 'exciting our special wonder.' For the
purpose of arriving at correct conclusions,
mere reasoning by analogy with regard to
the mineral developments of the lake Superior country need hardly be attempted, and
cannot safely be relied upon. Yet, while
ourself would bear this principle in mind,
which we have hinted for those who special the foundation of the wheel is stated in
which we have hinted for those who special the foundation of the wheel is stated in
which we have hinted for those who special wonder.' For the
sizes; English blister, cast, shear and spring steel;
uniata rods; car axles, made of double refined iron;
sheet and boiler iron, cut to pattern; tiers for locomotive engines, and other railroad carriage wheels,
made from common and double refined iron;
the latter a very superior article. The tires are
made by Messrs. Baldwin & Whitney, locomotive
engine manufacturers of this city. Orders addressed to them, or to us, will be promptly executed.
When the exact diameter of the wheel is stated in
which we have hinted for those who special to the content of the wheel is stated in
which we have hinted for those who special wonder.'

To the latter a very superior article. The tires are
made by Messrs. Baldwin & Whitney, locomotive
engine manufacturers of this city. Orders addressed to them, or to us, will be promptly executed.

When the exact diameter of the wheel is stated in
which we have hinted for those who special to the content of the whole with real region, and who attempt to disprove the facts simply by analogy, we would beg to remind them that the Ural mountains, so famous for rich copper, possess also remarkable deposits of gold. The mine of Beresof,

THOMAS & EDMUND GEORGE, 1821 in 1822 is at sets immediately under water, and increases in solidity for years.

N. E. cor. 12th and Market ste., Philad., Pa.

For sale in lots to suit purchasers, in tight paper and constantly on hand and have a suit purchasers. Thomas is sets immediately under water, and increases in solidity for years.

For sale in lots to suit purchasers, in tight paper and constantly on hand and have a suit purchasers. Thomas is sets immediately under water, and increases in solidity for years.

For sale in lots to suit purchasers, in tight paper and constantly on hand and have a suit purchasers. Thomas is sets immediately under water, and increases in solidity for years.

For sale in lots to suit purchasers, in tight paper and constantly on hand and have a suit purchasers. Thomas is sets immediately under water, and increases in solidity for years.

For sale in lots to suit purchasers, in tight paper and constantly on hand and have a suit purchasers. Thomas is solidity for years.

Thomas is a sets immediately under water, and increases in solidity for years.

For sale in lots to suit purchasers, in tight paper and constantly on hand and have a suit purchasers. The solidity for years.

Thomas is a sets immediately under water, and increases in solidity for years.

Thomas is a sets immediately did your years.

For sale in lots to suit purchasers, in tight paper and constantly on hand and year an side.

delay. Such a feeder would add to the busi-ness of the canal, while it would supply it Ekaterinbourg, on the Asiatic side, and north even of the 50th degree of latitude, contains A co-operation of the officers of Ohio and five parts of native gold in 100,000—its de-Indiana, in charge of the work, will proba-bly be required for the adoption of the best north to south, and from which 500 marcs of plan; and no time should be lost in bringing gold have been taken out in a single year! Again: according to Bergman, the copper of purchased at any price. So desirable an opportuni-Again: according to Bergman, the copper of the Andes is chiefly obtained from veins, (in the Andes is chiefly obtained from veins, (in fessional works. A traveller in England gives the following sketch of a railroad dinner in that country, to which, by the regulations of the road, exactly thirty minutes are allowed.

"To any one who had seen Englishmen dine only at leisure, it would really seem impossible that they should dine at all in half an hour. But they do it as effectually as already said more on the subject than a possible that they should dine at all in half an hour. But they do it as effectually as already said more on the subject than we had blue argillite, it is true,) but generally accom-

could be done in any country. In a large hall already said more on the subject than we had we found a table d'hote, spread pretty much intended. When we commenced, we designed simply to state our settled opinion, fortified somewhat by many in the scientific field that gold may and does exist, more or less, the waiters! An American army would first among the ores of this region. To use the have devoured what was before them, but emphatic language of a learned friend in minthis British one first devoured the waiters - erology, who has thoroughly studied their profuse developments of mineral wealth that ever astonished the eyes of man."

Coal.—The Philadelphia Inquirer states that the total amount of coal shipped from the various regions in that state during the present season, up to the latest dates, has been 1,427,467 tons.

10.—Wood on Railroads, octavo.

11.—Pambour on Locomotives, octavo, with plates.

(Philadelphia edition.)

12.—Lecount on Railroads, octavo, with plates.

13.—Smeaton's Tracts, 1796, octavo, with plates.

14.—Seward's New London Bridge, octavo, with plates.

15.—Storrow's Treatise on Water Walls.

15.—Storrow's Treatise on Water Walls.

The Detroit Advertiser in an article upon the nature of the ores in the lake Superior region, remarks that Messrs. Robbins and Hubbard, of that city, have recently assayed a specimen of native copper from lake Superior, and found in 12 ounces of copper, presently assayed a specimen of native copper, and so the superior, and found in 12 ounces of copper, prepared to receive orders to that extent, deliverable and only 14 ounces of nurs silver, but several grains and the superior of the ores of nurs silver but several grains.

September 18, 1846.

which we have hinted for those who sneer at the order, a fit to those wheels is guaranteed, saving almost every development made in our min-to the purchaser the expense of turning them out in-side. THOMAS & EDMUND GEORGE,

Valuable Works on Engineering for Sale.

The following works, belonging to the late Wm. R. Casey, have been deposited at this office for sale. collection, as many of them are not to be found or

nearly a complete set.

3.—Reports and Documents, 6 or 7 octavo vols.

4.—Tredgold's Carpentry, quarto, with plates.

5.—Barlow on Strength and Stress of Timber, octavo, with plates.

-Turnbull on Iron, octavo.
-Nicholson's Masonry and Stone Cutting, octavo, with plates.
-Tredgold's Tracts on Hydraulics, octavo, with

plates.

Gregory's Mathematics for Practical Men, octavo, with plates.

Wood on Railroads, octavo.

16.—Report on Atmospheric Railway, etc., quarto, with plates.
17.—Gallier's Price Book and Estimator, octavo.
18.—Public Works of Great Britain, folio, \$25.
19.—Weale's Bridges, new and valuable, \$23.

The above books will be sold by the single volume, if desired, and forwarded by express, or

Please address E. Hedge, Railroad Journal Office, 23 Chambers street, New York.

RAILROAD SCALES.—THE ATTEN-tion of Railroad Companies is particularly re-quested to Ellicotts' Scales, made for weighing load-ed cars in trains, or singly, they have been the in-ventors, and the first to make platform scales in the United States; supposing that an experience of 20 years has given a knowledge and superior advantage in the business.

years has given a knowledge and superior tage in the business.

The levers of our scales are made of wrought iron, all the bearers and fulcrums are made of the best cast steel, laid on blocks of granite, extending across the pit, the upper part of the scale only being made of wood. E. Ellicott has made the largest Railroad Scale in the world, its extreme length was one hundred and twenty feet, capable of weighing ten loaded cars at a single draft. It was put on the Mine Hill and Schuylkill Haven Railroad.

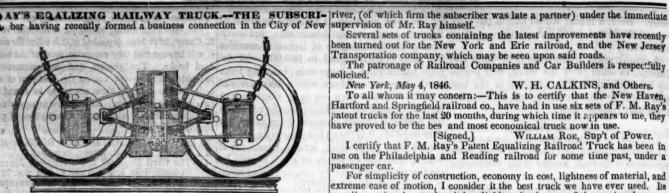
We are prepared to make scales of any size to weigh from five pounds to two hundred tons.

ELLICOTT & ABBOTT.

Factory, 9th street, near Coates, cor. Melon st.

Office, No. 3 North 5th street, Philadelphia, Pa.

AWRENCE'S ROSENDALE HYDRA-ulic Cement. This cement is warranted equal to any manufactured in this country, and has been pronounced superior to Francis' "Roman." Its value for Aqueducts, Locks, Bridges, Flooms and all Masonry exposed to dampness, is well known, as it sets immediately under water, and increases in



York, expressly for the manufacture of the newly patented and highly approved Railroad Truck of Mr. Fowler M. Ray, is ready to receive orders for building the same, from Railroad Companies and Car Builders in the United States, and elsewhere.

The above Truck has now been in use from one to two years on several roads a sufficient length of time to test its durability, and other good qualities, and to satisfy those who have used it, as may be seen by reference to the certificates which follow this notice.

There have been several improvements lately introduced upon the Truck, There have been several improvements lately introduced upon the Truck, such as additional springs in the bolsier of passenger cars, making them delightful riding cars—adapting it to tenders, trucks forward of the locomotive, and freight cars, which, with its original good qualities, make it in all respects the most desirable truck now offered to the public.

Orders for the above, will, for the present, be executed at the New York Screw Mill, corner 33d street and 3d avenue, (late P. Cooper's rolling mills) and at the Steam Engine Shop of T. F. Secor & Co., foot of 9th street, East

New York, May 4, 1846.

To all whom it may concern:—This is to certify that the New Haven, Hartford and Springfield railroad co., have had in use six sets of F. M. Ray's patent trucks for the last 20 months, during which time it appears to me, they have proved to be the best and most economical truck now in use.

[Signed,] WILLIAM ROE, Sup't of Power.
I certify that F. M. Ray's Patent Equalizing Railroad Truck has been in
use on the Philadelphia and Reading railroad for some time past, under a

Passenger car.

For simplicity of construction, economy in cost, lightness of material, and extreme ease of motion, I consider it the best truck we have ever used. Its peculiar make also renders it less liable to be thrown off the track, when passing over any obstruction. We intend using it extensively under the passenger and freight cars of the above road.

Reading, Pa., October 6, 1845. [Signed,] G. A. NICOLL, Sup.; Transportation, etc., Philadelphia and Reading Railroad.

To all whom it may concern:—This is to certify that the N. Jersey Railroad and Transportation company have used Fowler M. Ray's Truck forter last seven months, during which time the corrected to our entire satisfaction.

road and Transportation company have used Fowler M. Ray's Truck for the last seven months, during which time it has operated to our entire satisfaction. I have no hesitation in saying that it is the simplest and most economical truck now in use.

[Signed,] T. L. Smith,

Jersey City, November 4, 1845.

N. Jersey Railroad and Transp. Co.

This is to certify that F. M. Ray's Patent Equalizing Railroad Truck has been in use on the Long Island railroad for the last year, under a freight car.

For simplicity of construction, economy in cost, lightness of material and ease of motion, I consider it equal to any truck we have in use.

Long Island Railroad Devot.

1 Signed 1 John Leach

[Signed,] JOHN LEACH, 1y19 Sup't Motive Power. Long Island Railroad Depot, Jamaica November 12, 1845.

HERRON'S PATENT AMERICAN RAILWAY TRACK,

As seen stripped of the top ballasting

ERRON'S IMPROVEMENTS IN RAIL- 60 and 70 lbs. rails laid in the usual way. way Superstructure effect a large aggregate saving in the working expenses, and maintenance of railways, compared with the best tracks in use. This saving is effected—1st, Directly by the amount of the increased load that will be hauled by a locomotive, owing to the ing in the working expenses, and maintenance of railways, compared with the best tracks in use. This saving is effected—ist, Directly by the amount of the increased load that will be hauled by a locomotive, owing to the superior evenness of surface, of line and of joint. This gain alone may amount to 20 per cent. or the usual load of an engine.—21, In consequence of the thorough combination, bracing, and large bearing surface of this track, it will be maintained in a better condition than any other track in use, at about one-third the expense.—3d, As action and reaction are equal, a corresponding saving of about two-thirds will be effected in the wear and tear of the engines and cars, by the even surface and elastic structure of the track.—4th, The great security to life, and less liability to accident or damage, should the engine or cars be thrown off the rails.—5th, The absence of jar and vibration, that shake down retaining walls, enhantments and bridges.—6th, The great advantage of the high speed that may be safely attained, with ease of motion, reduction of noise, and consequently increased emfort to the traveller.—7th, The really permanent and parfect character of the Way, insuring regularity of engine or cars be thrown off the rails.—5th, The absence of jar and vibration, that shake down retaining walls, embankments and bridges.—6th, The great advantage of the high speed that may be safely attained, with ease of motion, reduction of noise, and consequently increased comfort to the traveller.—7th, The really permanent and parfect character of the Way, insuring regularity of transit. To which may be added the great increase of travel, that would be induced by the foregoing qualities to augment the revenue of the railroad.

etors of a road, furnishing approved materials in the first instance, the undersigned will construct the track on his p an n: he most perfect manner, with recent im-

Civil Engineer and Patentee.

Civil Engineer and Patentee.

ROSS WINANS, Baltimore, Md. CYRUS ALGER & Co., South Boston travel, that would be induced by the foregoing qualities to augment the revenue of the railroad.

The cost of the Patent track will depend on the quantity and cost of iron and other materials; but it will not exceed, even including the preservation of the timber, the average cost of the tracks on our principal railroads.

Generally, the timber structure, fastenings and workmanship, exclusive of the east of the iron rails, will be charged at one mill per ton; over the latter, manship, exclusive of the cost of the iron rails, will be charged at one mill per ton; over the latter, and not exceeding 300,000 tons, nine-tenths of a mill, effort \$2,300 to \$4,000 per mile. On this structure, rails of from 40 to 50 lbs. per yard, will be equal in effect to

THE AMERICAN RAILROAD JOURNAL is the only periodical having a general circulation throughout the Union, in which all matters connected with public works can be brought to the notice of all persons in any way interested in these underta-kings. Hence it offers peculiar advantages for advertising times of departure, rates of fare and freight, improvements in machinery, materials, as iron, timber, stone, cement, etc. It is also the best medium for advertising contracts, and placing the merits of new under-takings fairly before the public. Ce

amende de la constant de la constant

RATES OF ADVERTISING.

| 2012 2 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | Per |
|--|-----|-----|
| One page per annum\$ | 125 | 00 |
| One column " | 50 | 00 |
| One square " | 15 | 00 |
| One page per month | 20 | 00 |
| One column " | 8 | 00 |
| One square " | 2 | 50 |
| One page, single insertion | 8 | 00 |
| One columnn " " | 3 | 00 |
| One square " " | | 00 |
| Professional notices per annum | 5 | 00 |
| | | - |



lly

nd

en-

ical

and

AD

perages

der-

G.

5 60

00

2 50

1 00

·B. N.Y. Nail RY, VE. near a Pa. dv.

ING Adv.) oston oston

7.

orks,

RICH & CO'S IMPROV-ED PATENT SALA-MANDER SAFES. Warranted free from damp-ness, as well as fireand thief proof.

Particular attention is invit-ed to the following certificates, which speak for themselves:

TEST No. 10. Certificate from Mr. Silas C. Field, of Vicksburgh,

Mississippi.
On the morning of the 14th ult., the store owned On the morning of the 14th ult., the store owned and occupied by me in this city, was, with its contents, entirely consumed by fire. My stock of goods consisted of oil, rosin, lard, pork, sugar, molasses, liquors, and other articles of a combustible nature, in the midst of which was one of Rich's Improved Patent Salamander Safes, which I purchased last October of Mr. Isaac Bridge, New Orleans, and which contained my books and papers. This safe was red hot, and did not cool sufficiently to be opened until 16 hours after it was taken from the ruins. At the expiration of that time it was unlocked, when its contents proved to be entirely uninjured and not is contents proved to be entirely uninjured, and not even discolored. I deem this test sufficient to show that the high reputation enjoyed by Rich's Sases is

that the high reputation enjoyed by Rich's Safes is well merited.

Vicksburgh, Miss., March 9th, 1846.

Certificate from Judge Battaile, of Benton, Mississippi.

In October last I purchased one of Rich's Improved Salamander Safes, which was in the fire at the burning of my law office, and several adjoining buildings in this place, on the 17th of November last, at about half-past one o'clock A. M. of that day.

The building was entirely consumed: and I take last, at about half-past one o'clock A. M. of that day. The building was entirely consumed; and I take pleasure in stating that my papers in said safe were preserved, without injury. A receipt book which was in said safe, had the glue drawn out of its leather back by the heat, and the back broken; but the leaves of the book, and the writing thereon, were entirely uninjured; and some of the writing which was of blue ink, was also left wholly uneffaced and not in the least faded. Said safe was by the fire heated perfectly red hot, and I do not hesitate to say, that said safe is a perfect security against fire. But the safe tumbled over during the fire, and being heated red hot, the outer sheeting of the door became pressed in, and the bolts of the lock bent, so that it could not be unlocked, and I had to have it broken could not be unlocked, and I had to have it broken

PATENT HAMMERED RAILROAD, SHII tould not be unlocked, and I had to have it hocken open.

Benton, Miss., December 37,1845.

Benton, Miss., Dece

Also by Lewis M Hatch, 120 Meeting street Charleston, S. C.

FRENCH AND BAIRD'S PATENT SPARK ARRESTER.

O THOSE INTERESTED IN Railroads, Railroad Director and Managers are respectfully invi-ted to examine an improved SPARK ARRESTER, recently patented by the undersigned.

Our improved Spark Arresters have been extensively used during the last year on both passenger and freight engines, and have been brought to such a state of perfection that no an-noyance from sparks or dust from the chimney of engines on which they are

used is experienced.

These Arresters are constructed on These Arresters are constructed on an entirely different principle from any heretofore offered to the public. The form is such that a rotary motion is imparted to the heated air, smoke and sparks passing through the chimney, and by the centrifugal force thus acquired by the sparks and dust they are separated from the smoke and steam, and thrown into an outer chamber of the chimney through openings near its top, from whence they fall by their own gravity to the bottom of this chamber; the smoke and steam passing off at the top of the chimney, through a capacious and unobstructed passage, thus arresting the sparks without impairing the power of the engine by diminishing the draught or activity of the fire in the furnace.

These chimneys and arresters are simple, durable and neat in appearance. They are now in use on the following roads, to the managers and other officers of which we are at liberty to refer those who may desire to purchase or obtain further information in regard to their merits:

d

on the following roads, to the managers and other officers of which we are at liberty to refer those who may desire to purchase or obtain further information in regard to their merits:

R. L. Stevens, President Camden and Amboy Railroad Company; Richard Peters, Superintend. ant Georgia Railroad, Augusta, Ga.; G. A. Nicolls, Superintendant Philadelphia, Reading and Pottsville Railroad, Reading, Pa.; W. E. Morris, President Philadelphia, Germantown and Norristown Railroad Company, Philadelphia; E. B. Dudley, President W. and R. Railroad Company, Wilmington, N. C.; Col. James Gadsden, President S. C. and C. Railroad Company, Charleston, S. C.; W. C. Walker, Agent Vicksburgh and Jackson Railroad, Vicksburgh, Miss.; R. S. Van Rensselaer, Engineer and Sup't Hartford and New Haven Railroad, Vicksburgh, Miss.; R. S. Van Rensselaer, Engineer and Sup't Hartford and New Haven Railroad, Vicksburgh, Miss.; R. S. Van Rensselaer, Engineer and Sup't Hartford and New Haven Railroad, Trans. Co.; J. Elliott, Sup't Motive Power Philadelphia and Wilmington Railroad, Wilmington, Del.; J. O. Sterns, Sup't Elizabethown and Somerville Railroad; R. R. Cuyler, President Central Railroad Company, Savannah, Ga.; J. D. Gray, Sup't Macon Railroad, Maccn, Ga.; J. H. Cleveland, Sup't Southern Railroad, Monroe, Mich.; M. F. Chittenden, Sup't M. P. Central Railroad, Detroit, Mich; G. B. Fisk, Presisident Long Island Railroad, Brooklyn.

Orders for these Chimneys and Arresters, addressed to the subscribers, care Messrs. Baldwin & Whitney, of this city or to Hinckly & Drury, Boston, will be promptly executed.

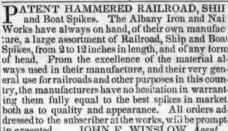
FRENCH & BAIRD.

N. B.—The subscribers will dispose of single rights, or rights for one or more States, on reasonable terms.

le terms.

Philadelphia, Pa., April 6, 1844.

** The letters in the figures refer to the article given in the Journal of June, 1844.



castings of all descriptions.

ROGERS, KETCHUM & GROSVENOR,
a45 Paterson, N. J., or 60 Wall street, N. York. a45

PATENT HAMMERED RAILROAD, SHII and Boat Spikes. The Albany Iron and Nai Spikes. The Troy Iron and Nail Factory keeps Works have always on hand, of their own manufacture, a large assortment of Railroad, Ship and Boat Spikes, from 2 to 12 inches in length, and of any form and Nails, from 3 to 10 inches, Spikes, from 2 to 12 inches in length, and of any form and now the availance of the material all which after five years' successful operation, and now

State street, Boston-coaches pass every fifteen mi-





TO RAILROAD COMPANIES AND BUILD-ERS OF MARINE AND LOCOMOTIVE ENGINES AND BOILERS.

PASCAL IRON WORKS.

WELDED WROUGHT IRON TUBES

From 4 inches to 1 in calibre and 2 to 12 feet long, capable of sustaining pressure from 400 to 2500 lbs. per square inch, with Stop Cocks, T. L. and other fixtures to suit, fitting together, with screw joints, suitable for STEAM, WATER, GAS, and for LOCOMOTIVE and other STEAM BOILER FLOSS.



MORRIS, TASKER & MORRIS. PHILADELPHIA.

LAP-WELDED WROUGHT IRON TUBES

FOR

TUBULAR BOILERS. FROM 1 1-4 TO 6 INCHES DIAMETER,

and

ANY LENGTH, NOT EXCEEDING 17 FEET.

These Tubes are of the same quality and manufacture as those so extensively used in England, Scotland, France and Germany, for Locomotive, Marine and other Steam Engine Boilers,

THOMAS PROSSER.

Patentce

28 Platt street, New York.

THE SUBSCRIBERS, AGENTS FOR

Codorus Glendon

Pig Iron. Spring Mili and Valley,

Have now a supply, and respectfully solicit the atronage of persons engaged in the making of Machinery, for which purpose the above makes of Pig Iron are particularly adapted.

They are also sole Agents for Wa'son's celebrated Fire Bricks and prepared Kaolin or Fire Clay, orders for which are promptly supplied.

SAM'L. KIMBER, & CO.,
59 North Wharves,

Jan. 14, 1846. [1y4] Philadelphia, Pa.

PATENT IN DESTRUCTIBLE WATER
Pipes. The subscribers continue to manufacture the above Pipes, of all the sizes and strength
required for City or Country use, and would invite
individuals or companies to examine its merits. This pipe, unlike cast iron and lead, imparts neither color, oxide or taste, being formed of strongly riveted sheet iron, and evenly lined on the inside with hydraulic cement. While in the process of laying, it has a thick covering externally of the same—thus forming nature's own conduit of stone. The iron being the property enclosed on both sides with content. forming nature's own conduit of stone. The fron being thoroughly enclosed on both sides with cement, precludes the possibility of rust or decay, and renders the pipe truly indestructible. The prices are less than those of iron or lead. We also manufacture Basons and D. Traps, for Water Closets, on a new principle, which we wish the public to examine at 112 Fulton street, New York. J. BALL & CO.

ENGLISH PATENT WIRE ROPES—FOR THE USE OF MINES, RAILWAYS, ETC.—
for sale or imported to order by the subscriber.
These Ropes are manufactured on an entirely different principle from any other, and are now almost exclusively used in the collieries and on the railways in Great Britain, where they are considered to be greatly superior to hempen ones, or iron chains, as regards safety, durability and economy. The plan upon which they are made effectually secures them from corrosion in the interior, as well as the exterior of the rope, and gives a greater compactness and elasticity than is found in any other manufacture.

Many of these ropes have been in constant operation in the different mines in England, and on the Blackwall and other inclined planes, for three and four years, and are still in good condition.

They have been applied to almost every purpose for which hempen ropes have been used—mines, heavy cranes, standing rigging, window cords, lightning conductors, signal halyards, tiller ropes, etc. Reference is made to the annexed statement for the relative strength and size. Testimonials from the most eminent engineers in England can be shown as to their efficiency, and any additional information required senseting the different descriptions and application will be given by most eminent engineers in England can be shown as to dien contently,
required respecting the different descriptions and application will be given by
ALFRED L. KEMP.

75 Broad street, New York, sole agent in the United States

Statement of Trial made at the Woolwich Royal Dock Yard, of the Patent Wire Ropes, as compared with Hempen Ropes and Iron Chains of the same strength.—October, 1841.

| WIRE ROPES, | | | | | N ROPES | | CHA | STRENGTH. | |
|-----------------------|---------------------------|-----------|---------------|---------------------------|------------------|-----------|-----------------------|----------------------|-----------|
| Wire gauge number. | Circumference of rope. | Weight pe | r fathom. | Circumference of rope. | Weight pe | r fathom. | Weight per fathom. | Diameter of iron. | Tons. |
| 11 | INCH. 41 31 | 13 8 | 02. 5 3 | 10 84 | LBS. 24 16 | oz. | LES. 50 27 | 15-16 11-16 | 20 13a |
| 14 15 | 31 | 6 | 11 2 | 7t 6t | 12 | 8 | 17 | 9-16 | 101 |
| 16 | 21 | 4 | 3 | 6 | 8 | 8 | 101 | 7-16 | 7 |

The working load, with a perpendicular lift, may be taken at 6 cwt. for every lb. weight per fathom, so that a rope weighing 5 lbs. per fathom would safely lift 3360 lbs., and so on in proportion. 1y24 NR

ja45 Reading, Pa.

The following decision of 'The following decision of the Commissioners of Patents is respectfully submitted to Railroad En-

Washington City, D. C., April 28th, 1846.

Sir: You are hereby informed that in the case of the interference between your claims and those of Gustavus A. Nicolls, for improvements in safety switches—upon which a hearing was appointed its office in Concord, and it will receive due altertake place on the 3rd Monday in March, 1846, the question of priority of invention has been decided in your favor. Inclosed is a copy of the decision.

The testimony in the case, is now open to the inspection of those concerned. Yours Respectfully,

EDMUND BURK,

Commissioner of Patents.

To Philos B. Tyler.

Any further interesting partition therefore immediately north of Merrimack River. They are ready, likewise, to contract for sleepers, and lumber for fencing said road from Concord to Meredith Bridge. Any proposals for grading masonry, sleepers, or fencing, may be left with Theodore French, Esq., Treasurer of said company, at his office in Concord, and it will receive due altention.

Concord, September 2, 1846.

339

G. RALSTON & CO., NO. 4

Have now on hand, for sale, Railroad Iron, viz. 180 tons 2½ x ½ inch Flat Punck.

Any further information may be obtained by addressing John Pendleton, Agent for the Proprietor 149 Hudson Street, New York.

O LOCOMOTIVE AND MARINE EN-

Sengg Foo Leave Ada and Do St P. St P. A. 31 1:

B

st the the via Wa

to a vide Tau

No trai

NICOLL'S PATENT SAFETY SWITCH for Railroad Turnouts. This invention, for some time in successful operation on one of the principal railroads in the country, effectually prevents at a switch, left wrong by accident or design. It acts independently of the main track rails, being laid down, or removed, without cutting or displacing them.

It is never touched by passing trains, except when in use, preventing their running off the track. It is simple in its construction and operation, requiring only two Castings and two Rails; the latter, even in much worn or used, not objectionable.

Working Models of the Safety Switch may be seen at Messrs. Davenport and Bridges, Cambridge-port, Mass., and at the office of the Railroad Journal, New York.

Plans, Specifications, and all information obtained

Plans, Specifications, and all information obtained ent length for construction, and proposals in writing on application to the Subscriber, Inventor, and Pawill be received at the New York office for the whole tentee G. A. NICOLLS, or any part of the work. By order of the President or any part of the work. By order of the President and Directors.

6136

T. S. BROWN, Chief Engineer.

NOTICE TO CONTRACTORS.—BOSTON,
Concord and Montreal Railroad Company. of Patents is respectfully submitted to Railroad Engineers, Superintendents, and all others interested in the subject.

(COPY.)

UNITED STATES PATENT OFFICE.

A. South Front St., Philadelphia, Pa.

Have now on hand, for sale, Railroad Iron, viz:
180 tons 2½ x ½ inch Flat Punched Rails, 20 ft. long.
25 " 2½ x ½ " Flange Iron Rails.
75 " 1 x ½ " Flat Punched Bars for Drafts
in Mines. A full assortment of Railroad Spikes,
Roat and Ship Spikes. They are prepayed to exe-

1m39 Cute orders for every description of Railroad Iron and Fixtures.

To Locomotive And Marine Engine Boiler Builders. Pascal Iron Works, 2 ple for Locomotives, Marine and other Steam Engine Boilers, from 2 to 5 inches in diameter. Also, 2 pipes for Gas, Steam and other purposes; extractions for Pumps of Steam Engines, etc. Manufacturing Tube for Hydraulic Presses; Hollow Pistons for Pumps of Steam Engines, etc. Manufacture: and for sale by MORRIS TASKER & MORRIS, War-Louse S. E. corner 3d and Walnut Sts., Philatelph:a